BIBLIOTECA CENTRALĂ
UNIVERSITATEA "POLITEHNICA"
TIMIŞOARA

L I S T A A N E X E L O R

INSTITUTUL POLITEHNIC TIMIŞOARA
BIBLIOTECA CENTRALĂ
Volumul Nr. 1
Dun. 351

BUPT

ANEXA.1

BUPT

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.          SEG PRINC
.          COMPILE FORTRAN
FORTRAN   STARTED


MELFI 43
FORTRAN V4.0                                        MELFIN1     28/03/84  14.54.15

C       1     C      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
C       2     C
C       3     C      PROGRAM ELABORAT DE ING POGANY ANDREI
C       4     C
C       5     C      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
        6     *  SEGMENT B1+B2
        7           REAL KX,KY
        8           INTEGER EL,DIF,CODMAR,V
        9           COMMON/B1/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MEQ,INIV
       10           COMMON/B2/CODMAR(200),HMAR(200),X(200),Y(200),QCON(200),EL(200,6),
       11          *IND(300,3),QDIST(300),ICEL(300),ICNO(200)
C      12     C
       13           PRINT 10
       14           PRINT 112
       15           PRINT 10
       16           READ(105,111)NTOP
       17     111   FORMAT(I2)
       18           PRINT 125
       19     125   FORMAT(///,50X,'MISCAREA APEI IN MEDII POROASE',//)
       20           DO 121 ITOP=1,NTOP
       21           PRINT 131,ITOP
       22     131   FORMAT(50X,'CONFIGURATIA TOPOLOGICA NR',I3/50X,29(1H*),//)
       23           READ(105,110)NPROBL
       24     110   FORMAT(I2)
       25           READ(105,130)NUMEL,NUMNOD,NNODEL,LBA,MEQ,INIV
       26     130   FORMAT(6I5)
       27           PRINT 135,NUMEL,NUMNOD,NNODEL,LBA
       28     135   FORMAT(30X,'DOMENIUL ARE',1X,I3,1X,'ELEMENTE SI',1X,I3,1X,'NODURI,
       29          *UN ELEMENT ARE',I2,1X,'NODURI'//9X,'MEMORIA CENTRALA ARE LA DISPOZ
       30          *ITIE LOCATII PENTRU 2** NODURI,300 ELEMENTE SI O LATIME DE',1X,I2,
       31          *1X,'A MATRICEI BANDA'//)
       32           IF(MEQ.EQ.1) PRINT 136
       33           IF(MEQ.EQ.2) PRINT 137
       34           IF(MEQ.EQ.3) PRINT 138
       35           IF(MEQ.EQ.4) PRINT 139
       36     136   FORMAT(33X,'MEDIUL POROS ESTE OMOGEN IZOTROP'//)
       37     137   FORMAT(33X,'MEDIUL POROS ESTE ANIZOTROP'//)
       38     138   FORMAT(33X,'MEDIUL POROS ESTE ORTOTROP'//)
       39     139   FORMAT(33X,'MEDIUL POROS ESTE NEOMOGEN'//)
       40           IF(NUMNOD*(11+LBA)+22*NLMEL+28-16384)141,141,142
       41     142   PRINT 145
       42     145   FORMAT(33X,'MEMORIA CENTRALA LA DISUZITIE DEPASITA STOP CALCUL')
       43           GO TO 15
       44     141   PRINT 70
       45           PRINT 71
       46           PRINT 72
       47           PRINT 73
FORTRAN V4.0                                        MELFIN1     28/03/84  14.54.15   1

       48           DO 15 IPRO=1,NPROBL
       49           CALL ASEMBL1
       50           CALL INPUT
       51           CALL FORMEC
       52           CALL MATREL
       53           CALL MATRINF
       54           CALL TERMLIB
       55           CALL MECHOLES
       56           CALL LINPOTEN
       57           CALL LINCURLN
       58     15    CONTINUE
       59     70    FORMAT(32X,'CODMAR'/32X,51(1H.),/)
       60     71    FORMAT(34X,'1',5X,'PUNCT INTERIOR SAU FRONTIERA IMPERMEABILA',/)
       61     72    FORMAT(34X,'2',5X,'FRONTIERA DE ALIMENTARE',/)
       62     73    FORMAT(34X,'3',5X,'FRONTIERA CU NIVEL LIBER',/)
       63     121   CONTINUE
       64     100   FORMAT(33X,67(1H*),/)
       65     102   FORMAT(33X,'DETERMINAREA SPECTRULUI HIDRODINAMIC PRIN METODA ELEME
       66          *NTELOR FINITE',/)
       67     15    STOP
       68           END

MELFI 44
FORTRAN V4.0                                        MELFIN1     28/03/84  14.54.15   2

                MODULE     B2              TYPE    C     LONGUEUR    3CF0 (15600)
                MODULE     B1              TYPE    C     LONGUEUR     124 (   36)
                MODULE     FZMOATA         TYPE    P     LONGUEUR    0670 ( 1648)

***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE =  0)              14.54.36
.          SEG S1
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.          COMPILE FORTRAN
FORTRAN 01.00                                          MELFIN1     28/03/84  14.54.32

     1      * SEGMENT B1+B2
     2            SUBROUTINE ASEMBL1
     3            INTEGER EL,CODMAR
     4            COMMON/B1/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MEQ,INIV
     5            COMMON/B2/CODMAR(200),HMAR(200),X(200),Y(200),QCON(200),EL(200,6),
     6           *IND(300,3),QDIST(300),ICEL(300),ICNO(200)
C    7      C     ASAMBLAREA ELEMENTELOR IN JURUL NODURILOR
     8            IF(IPRO-1)88,88,89
     9      89    DO 96 ICAR=1,NUMEL
    10            IF(ICEL(ICAR)-1)96,97,96
    11         97 READ(105,82)QDIST(ICAR),ICEL(ICAR)
    12         82 FORMAT(F25.9,I1)
    13         96 CONTINUE
    14            GO TO 10
    15         88 DO 1  M=1,NUMEL
    16            READ(105,8)(IND(M,J),J=1,NNODEL),QDIST(M),ICEL(M)
    17          8 FORMAT(3I3,F16.9,I1)
    18         1  CONTINUE
    19         10    IF(IPRO.EQ.1) GO TO 66
    20            GO TO 8)
    21         66 N=1
    22         6  L=1
    23            M=1
    24         4  J=1
    25         3  IF(IND(M,J)-N)23,21,23
    26         21 EL(N,L)=M
    27            L=L+1
    28            IF(L-6)23,23,5
    29         23 J=J+1
    30            IF(J-NNODEL)3 ,3 ,31
    31         31 M=M+1
    32            IF(M-NUMEL)4 ,4 ,35
    33         35 EL(N,L)=
    34            L=L+1
    35            IF(L-6)35,35,5
    36         5  N=N+1
    37            IF(N-NUMNOD)6 ,6 ,65
    38         65 WRITE(108,67)
    39         67 FORMAT(//,37X,'ASAMBLAREA ELEMENTELOR IN JURUL NODURILOR PENTRU DO
    40           *MENIUL DAT'//)
    41            WRITE(108,7 )
    42         7     FORMAT(41X,'NUMNOD',6X,'L1',6X,'L2',6X,'L3',6X,'L4',6X,'L5',6X,
    43           *'L6'//)
    44            DO 8  N=1,NUMNOD
    45            WRITE(108,81)(N,(EL(N,L),L=1,6))
    46         81 FORMAT(' ',(42X,I3,6X,6(I3,5X)))
    47         8  CONTINUE
FORTRAN 01.00                                          MELFIN1     28/03/84  14.54.32

    48      8     PRINT 12 ,IPRO
    49        12  FORMAT(////,60X,'P R O B L E M A',I3,/59X,2 (1H=)///)
    50            RETURN
    51            END

MELFI 45
FORTRAN 01.00                                          MELFIN1     28/03/84  14.54.32

                  MODULE     B2              TYPE    C     LONGUEUR     3CF0 (1560)
                  MODULE     B1              TYPE    C     LONGUEUR     0024 (0036)
                  MODULE     ASEMBL1         TYPE    P     LONGUEUR     03A0 (0928)

***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE =   )              14.54.45
.          SEG S2
.          COMPILE FORTRAN
FORTRAN 01.00                                          MELFIN1     28/03/84  14.54.47

     1      * SEGMENT B1+B2
     2            SUBROUTINE INPUT
     3            INTEGER EL,CODMAR
     4            COMMON/B1/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MEQ,INIV
     5            COMMON/B2/CODMAR(200),HMAR(200),X(200),Y(200),QCON(200),EL(200,6),
     6           *IND(300,3),QDIST(300),ICEL(300),ICNO(200)
     7            IF(IPRO-1)88,88,89
     8         89 DO 96 ICAR=1,NUMNOD
     9            IF(ICNO(ICAR)-1)96,97,96
    10         97 READ(105,82)ICAR,X(ICAR),Y(ICAR),CODMAR(ICAR),HMAR(ICAR),QCON(ICAR
    11           *),ICNO(ICAR)
    12         82 FORMAT(I4,2F8.2,I2,F7.2,F16.9,I5)
    13         96 CONTINUE
    14            GO TO 5
    15         88 DO 5  N=1,NUMNOD
    16         10 FORMAT(I4,2F8.2,I2,F7.2,F16.9,I5)
    17            READ(105,10 )N,X(N),Y(N),CODMAR(N),HMAR(N),QCON(N),ICNO(N)
    18          5 CONTINUE
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19      5      PRINT 11
2              PRINT 115
21             PRINT 116
22             PRINT 130


23             DO 35  N=1,NUMNOD
24             PRINT 135,N,X(N),Y(N),CODMAR(N),HMAR(N),QCON(N),ICNO(N)
25          35 CONTINUE
26          11 FORMAT(//,60X,'DATE NODALE'/60X,11(1H-),//)
27          115 FORMAT(' ',15X,'NOD',15X,'X',17X,'Y',17X,'CODMAR',9X,'HMAR',10X,'Q
28             *CON',11X,'ICNO'/)
29          116 FORMAT(' ',32X,'(M)',15X,'(M)',41X,'(M**3/SEC)'///)
3           130 FORMAT(' ',14X,104(1H=)/)
31          135 FORMAT(' ',15X,I4,10X,F8.2,10X,F8.2,16X,I2,9X,F7.2,5X,F16.9,5X,I1,
32             *)
33             RETURN
34             END
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MELFIN,46
FORTRAN 77.0L                                          MELFIN1     28/03/84  14.54.47                    1

          MODULE    B2              TYPE   C    LONGUEUR    3CF0 (15600)
          MODULE    B1              TYPE   C    LONGUEUR    0024 (0036)
          MODULE    INPUT           TYPE   P    LONGUEUR    0370 (0880)

***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE = 0)            14.55.02
.         SEG S3
.         COMPILE FORTRAN
FORTRAN 77.0L                                          MELFIN1     28/03/84  14.55.04


 1     * SEGMENT B1+B2,B3
 2           SUBROUTINE FORMEC
 3           INTEGER EL,DIF,V
 4           COMMON/B1/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MEQ,INIV
 5           COMMON/B2/CODMAR(200),HMAR(200),X(200),Y(200),QCON(200),EL(200,6),
 6          *IND(300,3),QDIST(300),ICEL(300),ICNO(200)
 7           COMMON/B3/DIF(300,3)
 8           DO 15 M=1,NUMEL
 9           DO 16 J=1,NNODEL
1            K=J+1
11           IF(K-3)17,17,18
12        18 K=1
13        17 CONTINUE
14        16 DIF(M,J)=IDIM(IND(M,K),IND(M,J))
15        15 CONTINUE
16           M=1
17           V=DIF(M,1)
18           J=2
19        21 IF(V.GE.DIF(M,J)) GO TO 2
2            V=DIF(M,J)
21        2  J=J+1
22           IF(J-3)21,21,22
23        22 M=M+1
24           IF(M-NUMEL)23,23,24
25        23 J=1
26           GO TO 21
27        24 MBAND=V+1
28           PRINT 156,MBAND
29       156 FORMAT(/,60X,'MBAND=',I3,'COLOANE'/60X,16(1H=))
3            IF(LBA-MBAND)3,4,4
31        3  PRINT 31,LBA,MBAND
32        31 FORMAT(///,9X,'LATIMEA DE',I3,'COLOANE LA DISPOZITIA MATRICEI BAND
33           *A INSUFICIENTA PTR CIT E NECESAR LA MBAND=',I3,'COLOANE STOP CALCU
34           *L'//)
35           STOP
36        4  CONTINUE
37           RETURN
38           END
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MELFIN,47
FORTRAN 77.0L                                          MELFIN1     28/03/84  14.55.04                    1

          MODULE    B3              TYPE   C    LONGUEUR    0E10 (3600)
          MODULE    B2              TYPE   C    LONGUEUR    3CF0 (15600)
          MODULE    B1              TYPE   C    LONGUEUR    0024 (0036)
          MODULE    FORMEC          TYPE   P    LONGUEUR    0288 (0648)

***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE = 0)            14.55.14
.         SEG S4
.         COMPILE FORTRAN
FORTRAN 77.0L                                          MELFIN1     28/03/84  14.55.17


 1     * SEGMENT B1+B2,B5+B6+B7+B8,B9
 2           SUBROUTINE MATREL
 3           INTEGER EL,CODMAR
 4           REAL KX,KY
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      COMMON/B1/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MEO,INIT
      COMMON/B2/CODMAR(200),HMAR(250),X(200),Y(200),QCON(200),EL(200,6),
     *IND(300,3),QDIST(300),ICEL(300),ICNO(200)
      COMMON/B5/SK(200,35)

      COMMON/B6/SUP(300)
      COMMON/B7/S(300,3,3)
      COMMON/B8/KX(300),KY(300)
      COMMON/B9/DIFA(300,3),DIFB(300,3)
      IF(IPRO.EQ.1) GO TO 5
      GO TO 9
    5 IF(MEO.EQ.0) GO TO 6
      IF(MEO.EQ.1) GO TO 61
      IF(MEO.EQ.2) GO TO 62
      IF(MEO.EQ.3) GO TO 63
      PRINT 64
   64 FORMAT(///,20X,'INITIALIZAREA TIPULUI MEDIULUI POROS CU CODUL 0,1,
     *2 SAU 3 NU ESTE CORECTA IN CARTELA DE DATE NR 2 STOP CALCUL')
      STOP
   62 READ(105,70)XKX
   70 FORMAT(F16.9)
      DO 71 M=1,NUMEL
      KX(M)=XKX
   71 KY(M)=XKX
      GO TO 90
   61 READ(105,72)XKX,YKY
   72 FORMAT(2F16.9)
      DO 73 M=1,NUMEL
      KX(M)=XKX
   73 KY(M)=YKY
      GO TO 90
   62 GO TO 61
   63 DO 75 M=1,NUMEL
      READ(105,76)KX(M),KY(M)
   76 FORMAT(2F16.9)
   75 CONTINUE
   90 DO 10 M=1,NUMEL
      SUP(M)=0.0
      DO 11 J=1,NNODEL
      N3=IND(M,J)
      K=J+1
      L=J+2
      IF(L-4)20,25,30
   20 N1=IND(M,K)
      N2=IND(M,L)
      GO TO 35
   25 L=1
      GO TO 34
   30 L=2
      K=1
   34 N1=IND(M,K)
      N2=IND(M,L)
   35 DIFA(M,J)=X(N1)-X(N2)
      DIFB(M,J)=Y(N2)-Y(N1)
   11 SUP(M)=SUP(M)+0.5*(Y(N3)*DIFA(M,J)
   10 CONTINUE
      DO 14 M=1,NUMEL
      DO 13 I=1,3
      DO 14 J=1,NNODEL
      S(M,I,J)=(KY(M)*DIFA(M,I)*DIFA(M,J)+KX(M)*DIFB(M,I)*DIFB(M,J))/4.0
     */SUP(M)
   14 CONTINUE
   13 CONTINUE
   10 CONTINUE
      PRINT 140
      PRINT 141
      PRINT 145
      PRINT 150
      PRINT 151
      DO 3  M=1,NUMEL
      PRINT 155,M,(IND(M,J),J=1,NNODEL),KY(M),KY(M),QDIST(N),ICEL(M)
    3 CONTINUE
  140 FORMAT(////,30X,'NOQUPTLE DOMENIULUI EVOLOATE IN SENS ANTIORAR'/)
  141 FORMAT(32X,22(1H-),/)
  145 FORMAT(/,13X,'NR',6X,3('NOD',6X),8X,'COEFIC  DE TRANSMISIVITATE'
     *, 6X,'COD',3X,'ICEL',/)
  150 FORMAT(/,21X,'ELEMENT',4X,'I',7X,'J',7X,'K',13X,'TX',10X,'TY',/)
  151 FORMAT(49X,'(MP/SEC)',13X,'(MP/SEC)',10X,'(MP/SEC/MP)'/11X,97(1H-),/
     */)
  155 FORMAT(13X,4(I3,5X),2(F16.7,4X),I3)
      RETURN
      END
```


MELFI 48 ...
FORTRAN ... MELFIN1 28/03/84 14.55.17 2

MODULE	B9	TYPE	C	LONGUEUR	1020 (A7284)
MODULE	B8	TYPE	C	LONGUEUR	0960 (A3600)
MODULE	B7	TYPE	C	LONGUEUR	2A20 (14000)

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                    MODULE     B6              TYPE    C     LONGUEUR     0480 (01200)
                    MODULE     B5              TYPE    C     LONGUEUR     6D6C (27776)

                    MODULE     B2              TYPE    C     LONGUEUR     3CF0 (15600)
                    MODULE     B1              TYPE    C     LONGUEUR     0024 (00036)
                    MODULE     MATREL          TYPE    P     LONGUEUR     0730 (01840)
***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE = 0)                14.55.37
.          SEG S5
.          COMPILE FORTRAN
FORTRAN 03.04                                                MELFIN1    28/03/84  14.55.40

      1     * SEGMENT B1+B2,B5+B6+B7+B8
      2           SUBROUTINE MATRINF
      3           INTEGER EL,CODMAR
      4           COMMON/B1/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MED,INIV
      5           COMMON/B2/CODMAR(200),HMAR(200),X(200),Y(200),QCON(200),EL(200,6),
      6          *IND(300,3),QDIST(300),ICEL(300),ICNO(200)
      7           COMMON/B5/SR(200,35)
      8           COMMON/B6/SUP(3000)
      9           COMMON/B7/S(300,3,3)
     10           COMMON/B8/KX(300),KY(300)
     11           IN=1
     12        16 JN=1
     13        10    SR(IN,JN)=0.0
     14           JN=JN+1
     15           IF(JN-MBAND)10,10,15

     16        15 IN=IN+1
     17           IF(IN-NUMNOD)16,16,17
     18        17 N=1
     19        22    N1=N
     20           IN=N
     21           JN=N1-(N-1)
     22           L=1
     23        12    M=EL(N,L)
     24           IF(M.EQ.0) GO TO 100
     25           J=1
     26        115 IF(IND(M,J).EQ.N) GO TO 11
     27           J=J+1
     28           IF(J-3)115,115,100
     29        100 L=L+1
     30           IF(L-6)120,120,125
     31        125 N1=N+1
     32        130 IF(N1-NUMNOD)130,130,260
     33        130 IF(N1-N-MBAND+1)140,140,260
     34        140 JN=N1-(N-1)
     35           L=1
     36        170 K=1
     37           M=EL(N,L)
     38        160 IF(M.EQ.0) GO TO 150
     39           IF(EL(N1,K).EQ.M) GO TO 155
     40        150 K=K+1
     41           IF(K-6)160,160,165
     42        165 L=L+1
     43           IF(L-6)170,170,175
     44        175 N1=N1+1
     45           GO TO 180
     46        155 J=1
     47        205 IF(IND(M,J).EQ.N1) GO TO 200
FORTRAN 03.04                                                MELFIN1    28/03/84  14.55.40    1

     48           J=J+1
     49           IF(J-3)205,205,200
     50        200 I=1
     51        215 IF(IND(M,I).EQ.N) GO TO 210
     52           I=I+1
     53           IF(I-3)215,215,150
     54        210 SR(IN,JN)=SR(IN,JN)+S(M,I,J)
     55           GO TO 150
     56        110 SR(IN,JN)=SR(IN,JN)+S(M,J,J)
     57           GO TO 100
     58        260 N=N+1
     59           IF(N-NUMNOD)220,220,135
     60        135 LIM2=IN
     61           RETURN
     62           END

MELFI049
FORTRAN 03.04                                                MELFIN1    28/03/84  14.55.40    2

                    MODULE     B8              TYPE    C     LONGUEUR     0960 (02400)
                    MODULE     B7              TYPE    C     LONGUEUR     2A30 (10800)
                    MODULE     B6              TYPE    C     LONGUEUR     0480 (01200)
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                    MODULE     B5              TYPE    C     LONGUEUR     606  (28 )
                    MODULE     B2              TYPE    C     LONGUEUR     3CF  (156 )
                    MODULE     B1              TYPE    C     LONGUEUR      24  (  36)
                    MODULE     MATRINF         TYPE    P     LONGUEUR     338  (  824)
***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE =  )                14.55.53
.           SEG 56
.           COMPILE FORTRAN
FORTRAN  .                                                  MELFIN1     28/ 3/84   14.55.55


      1     * SEGMENT B1+B2,B5+B6+B7+B8,B1
      2           SUBROUTINE TERMLIB
      3           INTEGER EL,CODMAR
      4           COMMON/B1/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MEO,INIV
      5           COMMON/B2/CODMAR(2 ),HMAR(2  ),X(2  ),Y(2  ),QCON(2  ),EL(2  ,6),
      6          *IND(3  ,3),QDIST(3  ),ICEL(3  ),ICNO(2  )
      7           COMMON/B5/SR(2  ,35)
      8           COMMON/B6/SUP(3  )
      9            COMMON/B7/S(3  ,3,3)
     1            COMMON/B8/KX(3  ),KY(3  )
     11           COMMON/B1 /P(2   )
     12           N=1
     13     5     IN=N
     14           P(IN)=
     15           IF(QCON(N).EQ.  )GO TO 25
     16           P(IN)=P(IN)+QCON(N)
     17        25 L=1
     18        65 M=EL(N,L)

     19           IF(M.EQ. ) GO TO 6
     2            IF(QDIST(M).EQ.  ) GO TO 6
     21           P(IN)=P(IN)+QDIST(M)*SUP(M)/3
     22        6  L=L+1
     23           IF(L-6)65,65,11
     24     11    IF(CODMAR(N).EQ.2.OR.CODMAR(N).EQ.3)GO TO 2
     25           GO TO 6
     26     2     JN=1
     27           P(IN)=P(IN)+SR(IN,JN)*HMAR(N)
     28     2 3   JN=JN+1
     29           IF(JN-MBAND)2 1,2 1,35
     3      2 1   SR(IN,JN)=
     31           GO TO 2 3
     32        66 IF(N-MBAND)1 ,1 ,15
     33        1  N1=1
     34        4  I=CODMAR(N1)
     35           GO TO (21,2 ,22),I
     36        21 N1=N1+1
     37           IF(N1-NUMNOD)3 ,3 ,35
     38        3  IF(N1-N-MBAND+1)4 ,4 ,35
     39        35 N=N+1
     4            IF(N-NUMNOD)5 ,5 ,55
     41        15 N1=N-MBAND+1
     42           GO TO 4
     43        22 JN=N1-(N-1)
     44           IF(JN-1)7 ,21,71
     45        71 SRT=SR(IN,JN)
     46           SR(IN,JN)=
     47        83 P(IN)=P(IN)-SRT*HMAR(N1)
FORTRAN  .                                                  MELFIN1     28/ 3/84   14.55.55                                  1


     48           GO TO 21
     49        7  L=1
     5            SRT=
     51        82 K=1
     52           M=EL(N,L)
     53        8  IF(M.EQ. ) GO TO 72
     54           IF(EL(N1,K).EQ.M) GO TO 73
     55           GO TO 72
     56        73 J=1
     57        75 IF(IND(M,J).EQ.N1) GO TO 74
     58           J=J+1
     59           IF(J-3) 75,75,74
     6         74 J=1
     61        78 IF(IND(M,I).EQ.N) GO TO 77
     62           I=I+1
     63           IF(I-3)78,78,72
     64        77 SRT=SRT+S(M,I,J)
     65        72 K=K+1
     66           IF(K-6)8 ,8 ,81
     67        81 L=L+1
     6            IF(L-6)82,82,83
     69        55 IF(IN.EQ.LIM2) GO TO 85
     7            WRITE(1 8,99)
     71        99 FORMAT(///,2 X,'IN TERMLIB IN NU ESTE EGAL CU LIM2 EROARE,STOP',)
     72           STOP
     73        85 WRITE(1 8,12 )(IN,P(IN),IN=1,LIM2)
     74     12    FORMAT(///,4(3X,'P(',I4,')=',G16.9,3X)/)
```

BUPT

```
                PRINT 140
   140  FORMAT(///,57X,'R E Z U L T A T E',/57X,17(1H*),///)
        RETURN
        END

MELFIN4A
FORTRAN 80.00                                          MELFIN1     28/03/84  14.55.55                    2

     MODULE     B1[illegible]          TYPE    C     LONGUEUR    [illegible]
     MODULE     B8              TYPE    C     LONGUEUR    3960 (03C8)
     MODULE     B7              TYPE    C     LONGUEUR    2A3[illegible]
     MODULE     B6              TYPE    C     LONGUEUR    04B[illegible]
     MODULE     B5              TYPE    C     LONGUEUR    6D6[illegible]
     MODULE     B2              TYPE    C     LONGUEUR    3CF[illegible]
     MODULE     B1              TYPE    C     LONGUEUR    [illegible]024 ([illegible]036)
     MODULE     TERMLIB         TYPE    P     LONGUEUR    0530 (01328)

***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE = [illegible])          14.56.15
.          SEG S7
.          COMPILE FORTRAN
FORTRAN 80.00                                          MELFIN1     28/03/84  14.56.17

    1   * SEGMENT B1+B2,B5+B6+B7+B8,B[illegible]
    2         SUBROUTINE MECHOLES
    3         INTEGER EL,CODMAR

    4         COMMON/B1/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MEQ,INIV
    5         COMMON/B2/CODMAR(200),HMAR(200),X(200),Y(200),QCON(200),EL(200,6),
    6        *IND(300,3),QDIST(300),ICEL(300),ICNO(200)
    7         COMMON/B5/SR(200,35)
    8         COMMON/B6/SUP(300)
    9         COMMON/B7/S(300,3,3)
   10         COMMON/B8/KX(300),KY(300)
   11         COMMON/B10/P(200)
   12         WRITE(108,218)
   13   218  FORMAT(43X,'INALTIMILE PIEZOMETRICE IN NODURILE RETELEI'/42X,45(1H
   14        **)/)
   15         I=1
   16         J=1
   17    99   IN=I
   18         JN=J-(I-1)
   19    60   K=1
   20         IF(I-J)130,110,110
   21   130   IF(I.EQ.1) GO TO 131
   22         SUM30=0.
   23   135   IF(I-K-MBAND+1)132,132,133
   24   132   IF(J-K-MBAND+1)134,134,133
   25   134   ARG30=SR(K,I-K+1)*SR(K,1)*SR(K,J-K+1)
   26         SUM30=SUM30+ARG30
   27   133   K=K+1
   28         IF(K-I+1)135,135,136
   29   131   SUM30=0.
   30   136   IF(SR(IN,1))350,335,350
   31   350   W=SR(IN,JN)
   32         SR(IN,JN)=(W-SUM30)/SR(IN,1)
   33   117   J=J+1
   34         JN=J-(I-1)
   35         IF(JN-MBAND)60,60,61
   36    61   IF(I.EQ.1) GO TO 7[illegible]
   37         WP=P(I)
   38    77   K=1
   39         SUM2=0.
   40    75   IF(I-K-MBAND+1)71,71,72
   41    71   E2=SR(K,I-K+1)*SR(K,1)*P(K)
   42         SUM2=SUM2+E2
   43    72   K=K+1
   44         IF(K-I+1)75,75,76
   45    7[illegible]   WP=P(I)
   46         P(I)=0.
   47         GO TO 77
FORTRAN [illegible].[illegible]                        MELFIN1     28/03/84  14.56.17                    1

   48    76   P(I)=(WP-SUM2)/SR(I,1)
   49         I=I+1
   50         IF(I-LIM2)59,59,62
   51    59   J=I
   52         GO TO 99
   53   335   WRITE(108,340)I,I
   54   340  FORMAT(' ',2X,'IN MECHOLES B(',I4,1H,,I4,')=ZERO SISTEMUL DE ECUA
   55        *TII NEDETERMINAT SE INTRERUPE CALCULUL AICI')
   56         STOP
   57    11   IF(J.EQ.1) GO TO 111
   58         SUM10=0.
   59   115   IF(I-K-MBAND+1)112,112,113
```

BUPT

```
      112 IF(J-K-MBAND+1)114,114,113
      114 ARG1 =SR(K,I-K+1)*SR(K,I)*SR(K,J-K+1)
          SUM1 =SUM1 +ARG1
      113 K=K+1
          IF(K-J+1)115,115,116
      111 SUM1 =0.
      116 W=SR(IN,JN)
          SR(IN,JN)=W-SUM1
          GO TO 117
       62 J=1
       32 I=LIM2+1-J
          K=I+1
          IF(K-LIM2)50,50,51
       50 SUM3=0.
       54 IF(K-I-MBAND+1)52,52,53
       52 E3=SR(I,K-I+1)*P(K)
          SUM3=SUM3+E3
       53 K=K+1
          IF(K-LIM2)54,54,55
       51 SUM3=0.
       55 WU=P(I)
          P(I)=WU-SUM3
          J=J+1
          IF(J-LIM2)32,32,200
      200 WRITE(108,215)(N,P(N),N=1,NUMNOD)
      215 FORMAT(' ',5(5X,'H(',I4,')=',F8.3,5X)/)
          CONTINUE
          RETURN
          END
```

MELFIC48
FORTRAN 02.00 MELFIN1 28/03/84 14.56.17 2

```
MODULE    81          TYPE   C    LONGUEUR    32  (   8)

MODULE    88          TYPE   C    LONGUEUR   96  (  24)
MODULE    87          TYPE   C    LONGUEUR   2A  (  10)
MODULE    86          TYPE   C    LONGUEUR   48  (  12)
MODULE    85          TYPE   C    LONGUEUR   6D  (  28)
MODULE    82          TYPE   C    LONGUEUR   3CF (  15)
MODULE    81          TYPE   C    LONGUEUR   124 (  36)
MODULE    MECHOLES    TYPE   P    LONGUEUR   678 ( 1656)
***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE =  )          14.56.32
.         SEG S8
.         COMPILE FORTRAN
FORTRAN 02.00 MELFIN1 28/03/84 14.56.34
```

```
      1     * SEGMENT 81+82,85+86+87+88,81
      2           SUBROUTINE LINPOTEN
      3           INTEGER EL,COOMAR
      4           COMMON/81/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MEQ,INIV
      5           COMMON/82/COOMAR(200),HMAR(200),X(200),Y(200),QCON(200),EL(200,6),
      6          *IND(300,3),QDIST(300),ICEL(300),ICNO(200)
      7           COMMON/85/SR(200,35)
      8           COMMON/86/SUP(300)
      9           COMMON/87/S(300,3,3)
     1            COMMON/88/KX(300),KY(300)
     11           COMMON/81*/P(200)
     12           DIMENSION X1(600),Y1(600),KIND(400),NU(400),LPC(200),H(200)
     13           EQUIVALENCE(SR(1,1),X1(1)),(SR(1,4),Y1(1)),(SR(1,7),KIND(1)),(SR(1
     14          *,9),NU(1)),(SR(1,11),LPC(1)),(P(1),H(1))
     15           VEP=1.0*10.**(-20)
     16           HMAX=H(1)
     17           DO 1 I=2,NUMNOD
     18           IF(HMAX-H(I))2,1,1
     19         2 HMAX=H(1)
     2          1 CONTINUE
     21           HMIN=H(1)
     22           DO 3 N=2,NUMNOD
     23           IF(HMIN-H(N))3,3,4
     24         4 HMIN=H(N)
     25         3 CONTINUE
     26           VAL=HMAX-HMIN
     27           ONIV=VAL/(INIV-1)
     28           PRINT 6,HMAX,HMIN,INIV
     29         6 FORMAT(' '//10X,'INTRE HMAX=',F8.3,' SI  HMIN=',F8.3,' SE TRASEAZA
     3          * ',I2,'LINII ECHIPOTENTIALE',//,)
     31           I1=0
     32           CCC=HMIN
     33           K1=0
     34           DO 7 I=1,NUMNOD
     35           IF(H(I).EQ.HMIN) GO TO 8
     36           GO TO 7
     37         8 K1=K1+1
     38           X1(K1)=X(I)
```

BUPT

```
39              YI(KI)=Y(I)
4               IPMAX=KI
41            7 CONTINUE
42              GO TO 259
43          265 CCC=II*UNIV+HMIN
44              DO 6  I=1,NUMEL
45              KIND(I)=
46              NU(I)=
47          6   CONTINUE
```



```
48              DO 6 1 I=1,NUMNOD
49              LPC(I)=
5           6 1 CONTINUE
51              KI=
52              M=1
53          1   LA=
54              LNU=
55              J1=1
56          11  J2=J1+1
57              IF(J2-3)1 ,1 ,15
58            1 J3=J2+1
59              IF(J3-3)2 ,2 ,25
6             15 J2=1
61              GO TO 1
62            25 J3=1
63            2  N3=IND(M,J3)
64              N2=IND(M,J2)
65              N1=IND(M,J1)
66              V1=((Y(N2)-Y(N3))*H(N1)+(Y(N3)-Y(N1))*H(N2)+(Y(N1)-Y(N2))*H(N3))
67              A1=V1/(2. *SUP(M))
68              W1=((X(N3)-X(N2))*H(N1)+(X(N1)-X(N3))*H(N2)+(X(N2)-X(N1))*H(N3))

69              B1=W1/(2. *SUP(M))
7               Z1=(X(N2)*Y(N3)-X(N3)*Y(N2))*H(N1)
71              Z2=(X(N3)*Y(N1)-X(N1)*Y(N3))*H(N2)
72              Z3=(X(N1)*Y(N2)-X(N2)*Y(N1))*H(N3)
73              C1=(Z1+Z2+Z3)/(2. *SUP(M))
74              V5=-(A1*X(N1)+B1*Y(N1)+C1-CCC)
75              V6=(A1*(X(N2)-X(N1))+B1*(Y(N2)-Y(N1)))
76              V7=ABS(V6)
77              IF(V7.LT.VEP) GO TO 41
78              DELTA=V5/V6
79              V=  .
8               IF(DELTA-V )41,42,43
81            41 LNU=LNU+1
82              IF(LNU.EQ.2) GO TO 2
83              GO TO 9
84            42 KI=KI+1
85              LA=LA+1
86              KIND(M)=KIND(M)+1
87              LPC(N1)=LPC(N1)+1
88              IF(LPC(N1).GE.2) GO TO 3
89              X1(KI)=X(N1)
9               Y1(KI)=Y(N1)
91              GO TO 31
92            3 KI=KI-1
93            31 IF(LA.EQ.2) GO TO 32
94              GO TO 11
```



```
95            32 NN=N1
96              GO TO 6 2
97            43 IF(DELTA-1)44,45,41
98            44 KI=KI+1
99              LA=LA+1
1               KIND(M)=KIND(M)+1
1 1             X1(KI)=X(N1)+(X(N2)-X(N1))*DELTA
1 2             Y1(KI)=Y(N1)+(Y(N2)-Y(N1))*DELTA
1 3             IF(LA.EQ.2) GO TO 4
1 4             IF(KIND(M).GE.2) GO TO 9
1 5             GO TO 4
1 6           45 KI=KI+1
1 7             LA=LA+1
1 8             KIND(M)=KIND(M)+1
1 9             LPC(N2)=LPC(N2)+1
11              IF(LPC(N2).GE.2)GO TO 33
111             X1(KI)=X(N2)
112             Y1(KI)=Y(N2)
113             GO TO 34
114           33 KI=KI-1
115           34 IF(LA.EQ.2) GO TO 35
116             GO TO 11
117           35 NN=N2
118             GO TO 6 2
119           9  J1=J1+1
12              IF(J1-3)11 ,11 ,199
121         2   NU(M)=1
122         199 M=M+1
123             IF(M-NUMEL)6 3,6 3,6 4
```

BUPT

```
                      GO TO 259
      603 IF(KIND(M).EQ.2) GO TO 605
          GO TO 199
      605 IF(NU(M).EQ.1) GO TO 199
          GO TO 1
      606 M=1
          GO TO 603
      602 L=1
      609 IF(EL(NN,L).EQ.M) GO TO 607
          M=EL(NN,L)
          IF(KIND(M).EQ.2) GO TO 607
          J1=1
          GO TO 11
      607 L=L+1
          IF(L-6)608,608,606
      608 IF(EL(NN,L).EQ.0) GO TO 606
          GO TO 609
FORTRAN 77.0                                  MELFIN1    28/03/84  14.56.34      3

      400 M2=1
      350 IF(IND(M2,1).EQ.N1) GO TO 36
          IF(IND(M2,2).EQ.N1) GO TO 37
          IF(IND(M2,3).EQ.N1)GO TO 38
      353 M2=M2+1
          IF(M2-NUMEL)350,350,352
       36 J1=1
          GO TO 351
       37 J1=2
          GO TO 351
       38 J1=3
      351 IF(IND(M2,1).EQ.N2) GO TO 354
          IF(IND(M2,2).EQ.N2) GO TO 354

          IF(IND(M2,3).EQ.N2) GO TO 354
          GO TO 353
      354 IF(M2.EQ.M) GO TO 353
          INDEX=
      401 IF(INDEX.EQ.1) GO TO 402
          GO TO 61
      352 INDEX=1
          GO TO 401
      402 IF(KIND(M2).EQ.2) GO TO 611
          IF(KIND(M2).EQ.1) GO TO 611
          GO TO 606
      610 IF(LA.EQ.2) GO TO 612
          GO TO 11
      612 M=1
      613 IF(KIND(M).EQ.1) GO TO 1
          M=M+1
          IF(M-NUMEL)613,613,606
      611 M=M2
          LA=1
          LNU=
          KIND(M)=KIND(M)+1
          GO TO 11
      259 PRINT 260,I1,CCC
      260 FORMAT(' '//40X,'COORDONATELE LINIEI ECHIPOTENTIALE',I2,'  DE VALO
     *ARE C=',F7.2,)
          PRINT 261,IPMAX
      261 FORMAT(40X,'LINIA ECHIPOTENTIALA ARE',I3,'PUNCTE',/)
          WRITE(108,262)((K1,X1(K1),K1,Y1(K1)),K1=1,IPMAX)
      262 FORMAT(' ',3(2X,'XT(',I3,')=',F9.2,3X,'YT(',I3,')=',F9.2,)//)
          I1=I1+1
          IF(I1-INIV+1)265,266,270
      266 CCC=HMAX
          K1=
          DO 9 I=1,NUMNOD
FORTRAN 77.0                                  MELFIN1    28/03/84  14.56.34      4

          IF(H(I).EQ.HMAX) GO TO 11
          GO TO 9
       11 K1=K1+1
          X1(K1)=X(I)
          Y1(K1)=Y(I)
          IPMAX=K1
        9 CONTINUE
          GO TO 259
      270 CONTINUE
          RETURN
          END

MELFI04C
FORTRAN 77.0                                  MELFIN1    28/03/84  14.56.34      5

     MODULE     B1          TYPE    C     LONGUEUR    0320 (0080 )
     MODULE     B8          TYPE    C     LONGUEUR    1960 (0780)
     MODULE     B7          TYPE    C     LONGUEUR    2A30 (1080)
     MODULE     B6          TYPE    C     LONGUEUR    04B0 (0120)
```

BUPT

```
                    MODULE     B5              TYPE    C     LONGUEUR     606 ( 28  )
                    MODULE     B2              TYPE    C     LONGUEUR     3CF ( 156 )
                    MODULE     B1              TYPE    C     LONGUEUR      24 (   36)
                    MODULE     LINPOTEN        TYPE    P     LONGUEUR     028 ( 3368)
***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE =  )              14.56.59
.         SEG S9
.         COMPILE FORTRAN
FORTRAN  .  .                                              MELFIN1     28/03/84   14.57. 1


      1     * SEGMENT B1+B2,B5+B6+B7+B8,B1
      2           SUBROUTINE LINCUREN
      3           INTEGER EL
      4           REAL KX,KY
      5           COMMON/B1/NUMEL,NUMNOD,NNODEL,MBAND,LIM2,IPRO,LBA,MEQ,INIV
      6           COMMON/B2/CODMAR(2  ),HMAR(2  ),X(2  ),Y(2  ),QCON(2  ),EL(2  ,6),
      7          *IND(3  ,3),QDIST(3  ),ICEL(3  ),ICNO(2  )
      8           COMMON/B5/SR(2  ,35)
      9           COMMON/B6/SUP(3  )
     10           COMMON/B7/S(3  ,3,3)
     11           COMMON/B8/KX(3  ),KY(3  )
     12           COMMON/B1 /P(2  )
     13           DIMENSION XT(6  ),YT(6  ),H(2  ),NC(6  ),IM(3  )
     14           EQUIVALENCE (SR(1,19),XT(1)),(SR(1,22),YT(1)),(P(1),H(1))
     15           EQUIVALENCE (SR(1,25),NC(1)),(S(1,1,1),IM(1))
     16           LCIP=-1
     17           VEP=1.  *1  .**(-2 )
     18           READ(1  5,1  )ICC

     19        1  FORMAT(I5)
     20           READ(1  5,2  )(NC(I1),I1=1,ICC)
     21        2  FORMAT(16I5)
     22           WRITE(1  8,18) ICC,(NC(I1),I1=1,ICC)
     23        18 FORMAT(' '//4  X,'LINIILE DE CURENT PORNESC DIN',I5,2X,
     24          *'NODURI SI CARE SINT'///4  X,8(5X,'N=',I3,1,3X//)
     25           I1=1
     26     9     DO 92 M1=1,NUMEL
     27           IM(M1)=
     28     92    CONTINUE
     29           IP=
     3            L=1
     31     27    IL=NC(I1)
     32           X =X(IL)
     33           Y =Y(IL)
     34           M=EL(IL,L)
     35           IF(M.EQ.  ) GO TO 263
     36           IF(IM(M).EQ.1)GOTO 29
     37           IP=I
     38           XT(IP)=X
     39           YT(IP)=Y
     4         71 LA=
     41           J1=1
     42        7  J2=J1+1
     43           IF(J2-3)31,31,32
     44        31 J3=J2+1
     45           IF(J3-3)4 ,4  ,45
     46        32 J2=1
     47           GO TO 31
FORTRAN  .  .                                              MELFIN1     28/03/84   14.57. 1                                  1


     48        45 J3=1
     49        4  N3=IND(M,J3)
     5            N2=IND(M,J2)
     51           N1=IND(M,J1)
     52           SC=X(N1)*(Y(N2)-Y  )+X(N2)*(Y  -Y(N1))+X  *(Y(N1)-Y(N2))
     53           IF(SC.LT.  .  1) GO TO 9  1
     54           GO TO 52
     55     9  1  IF(J1.EQ.1) GO TO 5
     56           GO TO 51
     57        5  V1=((Y(N2)-Y(N3))*H(N1)+(Y(N3)-Y(N1))*H(N2)+(Y(N1)-Y(N2))*H(N3))
     58           A1=V1/(2.  *SUP(M))
     59           W1=((X(N3)-X(N2))*H(N1)+(X(N1)-X(N3))*H(N2)+(X(N2)-X(N1))*H(N3))
     6            B1=W1/(2.  *SUP(M))
     61           IF(LA.EQ.  ) GO TO 51
     62           GO TO 9  2
     63        51 VJOS=KX(M)*A1*(Y(N1)-Y(N3))-KY(M)*B1*(X(N1)-X(N3))
     64           GO TO 9  3
     65     9  2  VJOS=KX(M)*A1*(Y(N2)-Y(N3))-KY(M)*B1*(X(N2)-X(N3))
     66     9  3  V777=ABS(VJOS)
     67           IF(V777.LT.VEP) GO TO 57
     68           VSUS=-KX(M)*A1*(Y(N3)-Y  )+KY(M)*B1*(X(N3)-X  )
     69           GO TO 9  5
     7         57 IF(LA.EQ.  ) GO TO 9  4
     71           GO TO 692
     72     9  4  LA=1
     7            GO TO 9  2
```

BUPT

```
                IF(EP)58,53,54
          58    IF(LA.EQ.0) GO TO 9 4
                GO TO 69
          53    IP=IP+1
                XT(IP)=X(N3)
                YT(IP)=Y(N3)
                GO TO 69
          54    IF(EP-1)55,56,58
          56    IP=IP+1
                IF(LA.EQ.0) GO TO 9 6
                GO TO 9 7
        9 6     XT(IP)=X(N1)
                YT(IP)=Y(N1)
                GO TO 69
        9 7     XT(IP)=X(N2)
                YT(IP)=Y(N2)
                GO TO 69
          55    IP=IP+1
                IF(LA.EQ. ) GO TO 9 8
                GO TO 9 9
FORTRAN  .    MELFIN1     28/ 3/84  14.57. 1                    2

        9 8     XT(IP)=X(N3)+(X(N1)-X(N3))*EP
                YT(IP)=Y(N3)+(Y(N1)-Y(N3))*EP
                GO TO 65
        9 9     XT(IP)=X(N3)+(X(N2)-X(N3))*EP
                YT(IP)=Y(N3)+(Y(N2)-Y(N3))*EP
                GO TO 65
          52    J1=J1+1
                IF(J1-3)7 ,7 ,69
          69    IM(M)=1
                NOD=1

          78    CX=X(NOD)-XT(IP)
                CY=Y(NOD)-YT(IP)
                IF(ABS(CX).LE.( .99))GO TO 77
                GO TO 3
          77    IF(ABS(CY).LE.( .99))GO TO 3 1
                GO TO 3
      3 1       DX=XT(IP)-XT(IP+LCIP)
                DY=YT(IP)-YT(IP+LCIP)
                IF(ABS(DX).LE.( .99))GO TO 166
                GOTO 165
        166     IF(ABS(DY).LE.( .99))GO TO 167
                GOTO 165
        167     IP=IP+LCIP
                IF(LA.EQ. ) GO TO 9 4
        165     L6=1
          3 2   M3=EL(NOD,L6)
                IF(M3.EQ. )GO TO 3 3
                IF( )M(M3).EQ.1)GO TO 3 3
                M=M3
                X =XT(IP)
                Y =YT(IP)
                GO TO 71
          3 3   L6=L6+1
                IF(L6-6)3 2,3 2,3
          3     NOD=NOD+1
                IF(NOD-NUMNOD)78,78,72
        65      IM(M)=1
                M2=1
          159   IF(LA.EQ. ) GO TO 15
                IF(IND(M2,1).EQ.N2) GO TO 151
                IF(IND(M2,2).EQ.N2) GO TO 151
                IF(IND(M2,3).EQ.N2) GO TO 151
                GO TO 153
          15    IF(IND(M2,1).EQ.N1) GO TO 151
                IF(IND(M2,2).EQ.N1) GO TO 151
                IF(IND(M2,3).EQ.N1) GO TO 151
          153   M2=M2+1
FORTRAN  .    MELFIN1     28/ 3/84  14.57. 1                    3

                IF(M2-NUMEL)159,159,72
        151     IF(IND(M2,1).EQ.N3)GOTO 154
                IF(IND(M2,2).EQ.N3)GOTO 154
                IF(IND(M2,3).EQ.N3)GOTO 154
                GO TO 153
          154   IF(IM(M2).EQ.1) GO TO 153
                M=M2
                X =XT(IP)
                Y =YT(IP)
                GO TO 71
           72   IPMAX=IP
                PRINT 26 ,I1
        26      FORMAT(' ',//4 X,'COORDONATELE LINIEI DE CURENT',I5,//)
                PRINT 261,IPMAX
          261   FORMAT(4 X,'LINIA DE CURENT ARE',I5,2X,'PUNCTE',/)
                WRITE(1 ,262)((IP,XT(IP),IP,YT(IP)),IP=1,IPMAX)
          262   FORMAT(' ',3(2X,'XT(',I3,')=',F9.2,3X,'YT(',I3,')=',F9.2,)//)
        29      L=L+1
                IF(L-6) 26,26,263
```

BUPT

```
      161          20 IP=2
      162             GO TO 27
      163        263 I1=I1+1
      164             IF(I1-ICC)90,90,91
      165         690 PRINT 691,M,X0,Y0,I1
      166         691 FORMAT(' ','IN ELEMENTUL',I5,'  X0=',F9.2,'  SI Y0=',F9.2,'  NU SI
     *NT PE VREO LATURA. SE OPRESTE CALCULUL LINIEI DE CURENT',I2,/)
      167             GO TO 72
      168         692 PRINT 693,M,X0,Y0,I1
      169         693 FORMAT(' ','IN ELEMENTUL',I5,'  DIN PUNCTUL X =',F9.2,'  SI Y0=',F
      170        *9.2,'VALOAREA FP=INFINIT SI LA=1. NU SE POATE CONTINUA CALCULUL LI
      171        *NIEI DE CURENT',I2,/)
      172             GO TO 72
      173          91 CONTINUE
      174             RETURN
      175             END
      176
```

```
MELFI 4D
FORTRAN 77.0                                          MELFIN1     28/03/84  14.57.21                    4

                    MODULE     B1          TYPE    C     LONGUEUR    032C (0180)
                    MODULE     B8          TYPE    C     LONGUEUR    096C (0240)
                    MODULE     B7          TYPE    C     LONGUEUR    2A3C (1440)
                    MODULE     B6          TYPE    C     LONGUEUR    048C (0120)
                    MODULE     B5          TYPE    C     LONGUEUR    6D6C (2800)
                    MODULE     B2          TYPE    C     LONGUEUR    3CFC (1560)
                    MODULE     B1          TYPE    C     LONGUEUR    0024 (0036)

                    MODULE     LINCUREN    TYPE    P     LONGUEUR    0D78 (3448)

***** FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE = 0)              14.57.26
.          TREE PRINC+(B1+B2)(S1,S2,S3+(B3),S5+(B5+B6+B7+B8)(S6+B1)(S7,*
.                S8,S9),S4+(B9)))

MELFI 4E

          CENTRUL DE CALCUL AL I.P.T. TIMISOARA      FELIX C-512  STEM - 000
          0023  MELFIN1     AN = CMEI    PH = 0002    DATE = 28/03/84-088
          H.DEB = 14H 54M 33S   H.FIN = 14H 57M 33S    TIME = 00008626
          LGP = 0005    MEM = 0013    LO = 00000998    IN = 00000002    QUE = 00

.          LINK NLG
LINK      STARTED

MELFI 4F

AUCUNE ERREUR A L EDITION DE LIENS

MELFI 41

          CENTRUL DE CALCUL AL I.P.T. TIMISOARA      FELIX C-512  STEM - 000
          0023  MELFIN1     AN = CMEI    PH = 0003    DATE = 28/03/84-088
          H.DEB = 14H 57M 33S   H.FIN = 14H 59M  5S    TIME = 00000097
          LGP = 0005    MEM = 0012    LO = 00000996    IN = 00000000    QUE = 00

.          RUN NL:1[0,1],TIME:6
          STARTED

MELFI 42
```

****

DETERMINAREA SPECTRULUI HIDRODINAMIC PRIN METODA ELEMENTELOR FINITE

****

MISCAREA APEI IN MEDII POROASE

CONFIGURATIA TOPOLOGICA NR 1
****

DOMENIUL ARE 200 ELEMENTE SI 121 NODURI,UN ELEMENT ARE 3 NODURI

MEMORIA CENTRALA ARE LA DISPOZITIE LOCATII PENTRU 200 NODURI,300 ELEMENTE SI O LATIME DE 35 A MATRICEI BANDA

MEDIUL POROS ESTE OMOGEN IZOTROP

. CODMAR

BUPT

1 PUNCT INTERIOR SAU FRONTIERA IMPERMEABILA

2 FRONTIERA CE ALIMENTARE

3 FRONTIERA CU NIVEL LIBER

ASAMBLAREA ELEMENTELOR IN JURUL NODURILOR PENTRU DOMENIUL DAT

NUMNOD	L1	L2	L3	L4	L5	L6
1	1	2				
2	2	3	4			
3	4	5	6			
4	6	7	8			
5	8	9	10			
6	10	11	12			
7	12	13	14			
8	14	15	16			
9	16	17	18			
10	18	19	20			
11	20					
12	1	21	22			
13	1	2	3	22	23	24
14	3	4	5	24	25	26
15	5	6	7	26	27	28
16	7	8	9	28	29	30
17	9	10	11	30	31	32
18	11	12	13	32	33	34
19	13	14	15	34	35	36
20	15	16	17	36	37	38
21	17	18	19	38	39	40
22	19	20	40			
23	21	41	42			
24	21	22	23	42	43	44
25	23	24	25	44	45	46
26	25	26	27	46	47	48
27	27	28	29	48	49	50
28	29	30	31	50	51	52
29	31	32	33	52	53	54
30	33	34	35	54	55	56
31	35	36	37	56	57	58
32	37	38	39	58	59	60
33	39	40	60			
34	41	61	62			
35	41	42	43	62	63	64
36	43	44	45	64	65	66
37	45	46	47	66	67	68
38	47	48	49	68	69	70
39	49	50	51	70	71	72
40	51	52	53	72	73	74
41	53	54	55	74	75	76
42	55	56	57	76	77	78
43	57	58	59	78	79	80
44	59	60	80			
45	61	81	82			
46	61	62	63	82	83	84
47	63	64	65	84	85	86
48	65	66	67	86	87	88
49	67	68	69	88	89	90
50	69	70	71	90	91	92
51	71	72	73	92	93	94
52	73	74	75	94	95	96
53	75	76	77	96	97	98
54	77	78	79	98	99	100
55	79	80	100			
56	81	101	102			
57	81	82	83	102	103	104
58	83	84	85	104	105	106
59	85	86	87	106	107	108
60	87	88	89	108	109	110
61	89	90	91	110	111	112
62	91	92	93	112	113	114
63	93	94	95	114	115	116
64	95	96	97	116	117	118
65	97	98	99	118	119	120
66	99	100	120			
67	101	121	122			
68	101	102	103	122	123	124
69	103	104	105	124	125	126
70	105	106	107	126	127	128
71	107	108	109	128	129	130
72	109	110	111	130	131	132
73	111	112	113	132	133	134
74	113	114	115	134	135	136
75	115	116	117	136	137	138
76	117	118	119	138	139	140
77	119	120	140			
78	121	141	142			

BUPT

79	121	122	123	142	143	144
80	123	124	125	144	145	146
81	125	126	127	146	147	148
82	127	128	129	148	149	150
83	129	130	131	150	151	152
84	131	132	133	152	153	154
85	133	134	135	154	155	156
86	135	136	137	156	157	158
87	137	138	139	158	159	160
88	139	140	160			
89	141	161	162			
90	141	142	143	162	163	164
91	143	144	145	164	165	166
92	145	146	147	166	167	168
93	147	148	149	168	169	170
94	149	150	151	170	171	172
95	151	152	153	172	173	174
96	153	154	155	174	175	176
97	155	156	157	176	177	178
98	157	158	159	178	179	180
99	159	160	180			
100	161	181	182			
101	161	162	163	182	183	184
102	163	164	165	184	185	186
103	165	166	167	186	187	188
104	167	168	169	188	189	190
105	169	170	171	190	191	192
106	171	172	173	192	193	194
107	173	174	175	194	195	196
108	175	176	177	196	197	198
109	177	178	179	198	199	200
110	179	180	200			
111	181	200				
112	181	182	183			
113	183	184	185			
114	185	186	187			
115	187	188	189			
116	189	190	191			
117	191	192	193			
118	193	194	195			
119	195	196	197			
120	197	198	199			
121	199	200	200			

P R O B L E M A 1

DATE NODALE

NOD	X (M)	Y (M)	CODMAR	HMAR	QCON (M**3/SEC)	ICNO
1	.00	.00	2	.70	.000000E+00	1
2	.00	10.00	1	.00	.000000E+00	1
3	.00	20.00	1	.00	.000000E+00	1
4	.00	30.00	1	.00	.000000E+00	1
5	.00	40.00	1	.00	.000000E+00	1
6	.00	50.00	1	.00	.000000E+00	1
7	.00	60.00	1	.00	.000000E+00	1
8	.00	70.00	1	.00	.000000E+00	1
9	.00	80.00	1	.00	.000000E+00	1
10	.00	90.00	1	.00	.000000E+00	1
11	.00	100.00	2	.00	.000000E+00	1
12	10.00	.00	2	.65	.000000E+00	1
13	10.00	10.00	1	.00	.000000E+00	1
14	10.00	20.00	1	.00	.000000E+00	1
15	10.00	30.00	1	.00	.000000E+00	1
16	10.00	40.00	1	.00	.000000E+00	1
17	10.00	50.00	1	.00	.000000E+00	1
18	10.00	60.00	1	.00	.000000E+00	1
19	10.00	70.00	1	.00	.000000E+00	1
20	10.00	80.00	1	.00	.000000E+00	1
21	10.00	90.00	1	.00	.000000E+00	1
22	10.00	100.00	2	.00	.000000E+00	1
23	20.00	.00	2	.60	.000000E+00	1
24	20.00	10.00	1	.00	.000000E+00	1
25	20.00	20.00	1	.00	.000000E+00	1
26	20.00	30.00	1	.00	.000000E+00	1
27	20.00	40.00	1	.00	.000000E+00	1
28	20.00	50.00	1	.00	.000000E+00	1
29	20.00	60.00	1	.00	.000000E+00	1

BUPT

MBAND= 13COLOANE

BUPT

NODURILE DOMENIULUI EXPLORATE IN SENS ANTIORAR

NR ELEMENT	NOD 1	NOD 2	NOD 3	COEFIC DE TRANSMISIVITATE TX (MP/SEC)	TY (MP/SEC)	QDIST (MC/S/MP)	ICEL
1	1	12	13	.042331800	.04233180	.000000005	0
2	1	13	2	.042331800	.04233180	.000000000	0
3	2	13	14	.042331800	.04233180	.000000000	0
4	2	14	3	.042331800	.04233180	.000000000	0
5	3	14	15	.042331800	.04233180	.000000000	0
6	3	15	4	.042331800	.04233180	.000000000	0
7	4	15	16	.042331800	.04233180	.000000003	0
8	4	16	5	.042331800	.04233180	.000000004	0
9	5	16	17	.042331800	.04233180	.000000000	0
10	5	17	6	.042331800	.04233180	.000000000	0
11	6	17	18	.042331800	.04233180	.000000000	0
12	6	18	7	.042331800	.04233180	.000000000	0
13	7	18	19	.042331800	.04233180	.000000000	0
14	7	19	8	.042331800	.04233180	.000000000	0
15	8	19	20	.042331800	.04233180	.000000000	0
16	8	20	9	.042331800	.04233180	.000000000	0
17	9	20	21	.042331800	.04233180	.000000000	0
18	9	21	10	.042331800	.04233180	.000000000	0
19	10	21	22	.042331800	.04233180	.000000000	0
20	10	22	11	.042331800	.04233180	.000000000	0
21	12	23	24	.042331800	.04233180	.000000000	0
22	12	24	13	.042331800	.04233180	.000000000	0
23	13	24	25	.042331800	.04233180	.000000000	0
24	13	25	14	.042331800	.04233180	.000000000	0
25	14	25	26	.042331800	.04233180	.000000000	0
26	14	26	15	.042331800	.04233180	.000000000	0
27	15	26	27	.042331800	.04233180	.000000000	0
28	15	27	16	.042331800	.04233180	.000000000	0
29	16	27	28	.042331800	.04233180	.000000000	0
30	16	28	17	.042331800	.04233180	.000000000	0
31	17	28	29	.042331800	.04233180	.000000000	0
32	17	29	18	.042331800	.04233180	.000000000	0
33	18	29	30	.042331800	.04233180	.000000000	0
34	18	30	19	.042331800	.04233180	.000000000	0
35	19	30	31	.042331800	.04233180	.000000000	0
36	19	31	20	.042331800	.04233180	.000000000	0
37	20	31	32	.042331800	.04233180	.000000000	0
38	20	32	21	.042331800	.04233180	.000000000	0
39	21	32	33	.042331800	.04233180	.000000000	0
40	21	33	22	.042331800	.04233180	.000000000	0
41	23	34	35	.042331800	.04233180	.000000000	0
42	23	35	24	.042331800	.04233180	.000000000	0
43	24	35	36	.042331800	.04233180	.000000000	0
44	24	36	25	.042331800	.04233180	.000000000	0
45	25	36	37	.042331800	.04233180	.000000000	0
46	25	37	26	.042331800	.04233180	.000000000	0
47	26	37	38	.042331800	.04233180	.000000000	0
48	26	38	27	.042331800	.04233180	.000000000	0
49	27	38	39	.042331800	.04233180	.000000000	0
50	27	39	28	.042331800	.04233180	.000000000	0
51	28	39	40	.042331800	.04233180	.000000000	0
52	28	40	29	.042331800	.04233180	.000000000	0
53	29	40	41	.042331800	.04233180	.000000000	0
54	29	41	30	.042331800	.04233180	.000000000	0
55	30	41	42	.042331800	.04233180	.000000000	0
56	30	42	31	.042331800	.04233180	.000000000	0
57	31	42	43	.042331800	.04233180	.000000000	0
58	31	43	32	.042331800	.04233180	.000000000	0
59	32	43	44	.042331800	.04233180	.000000000	0
60	32	44	33	.042331800	.04233180	.000000000	0
61	34	45	46	.042331800	.04233180	.000000000	0
62	34	46	35	.042331800	.04233180	.000000000	0
63	35	46	47	.042331800	.04233180	.000000000	0
64	35	47	36	.042331800	.04233180	.000000000	0
65	36	47	48	.042331800	.04233180	.000000000	0
66	36	48	37	.042331800	.04233180	.000000000	0
67	37	48	49	.042331800	.04233180	.000000000	0
68	37	49	38	.042331800	.04233180	.000000000	0
69	38	49	50	.042331800	.04233180	.000000000	0
70	38	50	39	.042331800	.04233180	.000000000	0
71	39	50	51	.042331800	.04233180	.000000000	0
72	39	51	40	.042331800	.04233180	.000000000	0
73	40	51	52	.042331800	.04233180	.000000000	0
74	40	52	41	.042331800	.04233180	.000000000	0
75	41	52	53	.042331800	.04233180	.000000000	0

BUPT

76	41	53	42	.4233180	.4233180	.
77	42	53	54	.4233180	.4233180	.
78	42	54	43	.4233180	.4233180	.
79	43	54	55	.4233180	.4233180	.
8	43	55	44	.4233180	.4233180	.
81	45	56	57	.4233180	.4233180	.
82	45	57	46	.4233180	.4233180	.
83	46	57	58	.4233180	.4233180	.
84	46	58	47	.4233180	.4233180	.
85	47	58	59	.4233180	.4233180	.
86	47	59	48	.4233180	.4233180	.
87	48	59	6	.4233180	.4233180	.
88	48	6	49	.4233180	.4233180	.
89	49	6	61	.4233180	.4233180	.
9	49	61	5	.4233180	.4233180	.
91	5	61	62	.4233180	.4233180	.
92	5	62	51	.4233180	.4233180	.
93	51	62	63	.4233180	.4233180	.
94	51	63	52	.4233180	.4233180	.
95	52	63	64	.4233180	.4233180	.
96	52	64	53	.4233180	.4233180	.
97	53	64	65	.4233180	.4233180	.
98	53	65	54	.4233180	.4233180	.
99	54	65	66	.4233180	.4233180	.
1	54	66	55	.4233180	.4233180	.
1 1	56	67	68	.4233180	.4233180	.
1 2	56	68	57	.4233180	.4233180	.
1 3	57	68	69	.4233180	.4233180	.
1 4	57	69	58	.4233180	.4233180	.
1 5	58	69	7	.4233180	.4233180	.
1 6	58	7	59	.4233180	.4233180	.
1 7	59	7	71	.4233180	.4233180	.
1 8	59	71	6	.4233180	.4233180	.
1 9	6	71	72	.4233180	.4233180	.
11	6	72	61	.4233180	.4233180	.
111	61	72	73	.4233180	.4233180	.
112	61	73	62	.4233180	.4233180	.
113	62	73	74	.4233180	.4233180	.
114	62	74	63	.4233180	.4233180	.
115	63	74	75	.4233180	.4233180	.
116	63	75	64	.4233180	.4233180	.
117	64	75	76	.4233180	.4233180	.
118	64	76	65	.4233180	.4233180	.
119	65	76	77	.4233180	.4233180	.
12	65	77	66	.4233180	.4233180	.
121	67	78	79	.4233180	.4233180	.
122	67	79	68	.4233180	.4233180	.
123	68	79	8	.4233180	.4233180	.
124	68	8	69	.4233180	.4233180	.
125	69	8	81	.4233180	.4233180	.
126	69	81	7	.4233180	.4233180	.
127	7	81	82	.4233180	.4233180	.
128	7	82	71	.4233180	.4233180	.
129	71	82	83	.4233180	.4233180	.
13	71	83	72	.4233180	.4233180	.
131	72	83	84	.4233180	.4233180	.
132	72	84	73	.4233180	.4233180	.
133	73	84	85	.4233180	.4233180	.
134	73	85	74	.4233180	.4233180	.
135	74	85	86	.4233180	.4233180	.
136	74	86	75	.4233180	.4233180	.
137	75	86	87	.4233180	.4233180	.
138	75	87	76	.4233180	.4233180	.
139	76	87	88	.4233180	.4233180	.
14	76	88	77	.4233180	.4233180	.
141	78	89	9	.4233180	.4233180	.
142	78	9	79	.4233180	.4233180	.
143	79	9	91	.4233180	.4233180	.
144	79	91	8	.4233180	.4233180	.
145	8	91	92	.4233180	.4233180	.
146	8	92	81	.4233180	.4233180	.
147	81	92	93	.4233180	.4233180	.
148	81	93	82	.4233180	.4233180	.
149	82	93	94	.4233180	.4233180	.
15	82	94	83	.4233180	.4233180	.
151	83	94	95	.4233180	.4233180	.
152	83	95	84	.4233180	.4233180	.
153	84	95	96	.4233180	.4233180	.
154	84	96	85	.4233180	.4233180	.
155	85	96	97	.4233180	.4233180	.
156	85	97	86	.4233180	.4233180	.
157	86	97	98	.4233180	.4233180	.
158	86	98	87	.4233180	.4233180	.
159	87	98	99	.4233180	.4233180	.
16	87	99	88	.4233180	.4233180	.
161	89	1	1 1	.4233180	.4233180	.
162	89	1 1	9	.4233180	.4233180	.
163	9	1 1	1 2	.4233180	.4233180	.
164	9	1 2	91	.4233180	.4233180	.
165	91	1 2	1 3	.4233180	.4233180	.
166	91	1 3	92	.4233180	.4233180	.
167	92	1 3	1 4	.4233180	.4233180	.
168	92	1 4	93	.4233180	.4233180	.
169	93	1 4	1 5	.4233180	.4233180	.

BUPT

170	93	105	94	.04233180	.04233180	.0	
171	94	1 5	1 6	.04233180	.04233180	.0	
172	94	1 6	95	.04233180	.04233180	.0	
173	95	1 6	1 7	.04233180	.04233180	.0	
174	95	1 7	96	.04233180	.04233180	.0	
175	96	1 7	1 8	.04233180	.04233180	.0	
176	96	1 8	97	.04233180	.04233180	.0	
177	97	1 8	1 9	.04233180	.04233180	.0	
178	97	1 9	98	.04233180	.04233180	.0	
179	98	1 9	11	.04233180	.04233180	.0	
180	98	11	99	.04233180	.04233180	.0	
181	1	111	112	.04233180	.04233180	.0	
182	1	112	1 1	.04233180	.04233180	.0	
183	1 1	112	113	.04233180	.04233180	.0	
184	1 1	113	1 2	.04233180	.04233180	.0	
185	1 2	113	114	.04233180	.04233180	.0	
186	1 2	114	1 3	.04233180	.04233180	.0	
187	1 3	114	115	.04233180	.04233180	.0	
188	1 3	115	1 4	.04233180	.04233180	.0	
189	1 4	115	116	.04233180	.04233180	.0	
190	1 4	116	1 5	.04233180	.04233180	.0	
191	1 5	1 6	117	.04233180	.04233180	.0	
192	1 5	117	1 6	.04233180	.04233180	.0	
193	1 6	117	118	.04233180	.04233180	.0	
194	1 6	118	1 7	.04233180	.04233180	.0	
195	1 7	118	119	.04233180	.04233180	.0	
196	1 7	119	1 8	.04233180	.04233180	.0	
197	1 8	119	12	.04233180	.04233180	.0	
198	1 8	12	1 9	.04233180	.04233180	.0	
199	1 9	12	121	.04233180	.04233180	.0	
200	1 9	121	11	.04233180	.04233180	.0	

P(1)=	.296322629E-01	P(2)=	.148161314E-01	P(3)=	.0	P(4)=	.
P(5)=	.	P(6)=	.	P(7)=	.	P(8)=	.
P(9)=	.	P(1)=	.	P(11)=	.	P(12)=	.55 313555E- 1
P(13)=	.275156721E-01	P(14)=	.	P(15)=	.	P(16)=	.
P(17)=	.	P(18)=	.	P(19)=	.	P(2)=	.
P(21)=	.	P(22)=	.	P(23)=	.507981777E-01	P(24)=	.25399 851E- 1
P(25)=	.	P(26)=	.	P(27)=	.	P(28)=	.
P(29)=	.	P(3)=	.	P(31)=	.	P(32)=	.
P(33)=	.	P(34)=	.448717177E- 1	P(35)=	.224358551E-01	P(36)=	.
P(37)=	.	P(38)=	.	P(39)=	.	P(4)=	.
P(41)=	.	P(42)=	.	P(43)=	.	P(44)=	.
P(45)=	.397919981E-01	P(46)=	.198959522E- 1	P(47)=	.	P(48)=	.
P(49)=	.	P(5)=	.	P(51)=	.	P(52)=	.
P(53)=	.	P(54)=	.	P(55)=	.	P(56)=	.33 188125E- 1
P(57)=	.165 94 25E-01	P(58)=	.	P(59)=	.	P(6)=	.
P(61)=	.	P(62)=	.	P(63)=	.	P(64)=	.
P(65)=	.	P(66)=	.	P(67)=	.27 92360 E-01	P(68)=	.135461763E- 1
P(69)=	.	P(7)=	.	P(71)=	.	P(72)=	.
P(73)=	.	P(74)=	.	P(75)=	.	P(76)=	.
P(77)=	.	P(78)=	.203192718E- 1	P(79)=	.101596341E- 1	P(8)=	.
P(81)=	.	P(82)=	.	P(83)=	.	P(84)=	.
P(85)=	.	P(86)=	.	P(87)=	.	P(88)=	.
P(89)=	.135461800E-01	P(9)=	.677309185E- 2	P(91)=	.	P(92)=	.
P(93)=	.	P(94)=	.	P(95)=	.	P(96)=	.
P(97)=	.	P(98)=	.	P(99)=	.	P(1)=	.6773 8813E- 2
P(1 1)=	.3386544 6E- 2	P(1 2)=	.	P(1 3)=	.	P(1 4)=	.
P(1 5)=	.	P(1 6)=	.	P(1 7)=	.	P(1 8)=	.
P(1 9)=	.	P(11)=	.	P(111)=	.	P(112)=	.
P(113)=	.	P(114)=	.	P(115)=	.	P(116)=	.
P(117)=	.	P(118)=	.	P(119)=	.	P(12)=	.

POLITE
TECA CENTR
BUPT

PT(121)= .[illegible] PT

R E Z U L T A T E

INALTIMILE PIEZOMETRICE IN NODURILE RETELEI

H(1)= .7[illegible]	H(2)= .561	H(3)= .46	H(4)= .378	H(5)= .3[illegible]9
H(6)= .248	H(7)= .193	H(8)= .142	H(9)= .[illegible]93	H(1[illegible])= .[illegible]46
H(11)= .[illegible]	H(12)= .65[illegible]	H(13)= .542	H(14)= .45	H(15)= .372
H(16)= .3[illegible]5	H(17)= .245	H(18)= .191	H(19)= .14	H(2[illegible])= .[illegible]92
H(21)= .[illegible]46	H(22)= .[illegible]	H(23)= .6[illegible]	H(24)= .5[illegible]7	H(25)= .426
H(26)= .356	H(27)= .293	H(28)= .237	H(29)= .185	H(3[illegible])= .136
H(31)= .[illegible]9[illegible]	H(32)= .[illegible]45	H(33)= .[illegible]	H(34)= .53[illegible]	H(35)= .459
H(36)= .392	H(37)= .331	H(38)= .276	H(39)= .224	H(4[illegible])= .176
H(41)= .13[illegible]	H(42)= .[illegible]86	H(43)= .[illegible]43	H(44)= .[illegible]	H(45)= .47
H(46)= .4[illegible]8	H(47)= .352	H(48)= .3[illegible]1	H(49)= .253	H(5[illegible])= .2[illegible]8
H(51)= .165	H(52)= .123	H(53)= .[illegible]81	H(54)= .[illegible]4	H(55)= .[illegible]
H(56)= .39[illegible]	H(57)= .349	H(58)= .3[illegible]8	H(59)= .268	H(6[illegible])= .229
H(61)= .19[illegible]	H(62)= .152	H(63)= .114	H(64)= .[illegible]76	H(65)= .[illegible]38
H(66)= .[illegible]	H(67)= .32	H(68)= .291	H(69)= .263	H(7[illegible])= .234
H(71)= .2[illegible]4	H(72)= .172	H(73)= .139	H(74)= .1[illegible]5	H(75)= .[illegible]71
H(76)= .[illegible]35	H(77)= .[illegible]	H(78)= .24[illegible]	H(79)= .23	H(8[illegible])= .216
H(81)= .2[illegible]1	H(82)= .18[illegible]	H(83)= .155	H(84)= .127	H(85)= .[illegible]97
H(86)= .[illegible]66	H(87)= .[illegible]33	H(88)= .[illegible]	H(89)= .16	H(9[illegible])= .173
H(91)= .178	H(92)= .173	H(93)= .161	H(94)= .142	H(95)= .118
H(96)= .[illegible]91	H(97)= .[illegible]62	H(98)= .[illegible]31	H(99)= .[illegible]	H(1[illegible])= .[illegible]8
H(1[illegible]1)= .124	H(1[illegible]2)= .147	H(1[illegible]3)= .153	H(1[illegible]4)= .147	H(1[illegible]5)= .132
H(1[illegible]6)= .112	H(1[illegible]7)= .[illegible]87	H(1[illegible]8)= .[illegible]59	H(1[illegible]9)= .[illegible]3[illegible]	H(11[illegible])= .[illegible]
H(111)= .[illegible]	H(112)= .[illegible]95	H(113)= .134	H(114)= .146	H(115)= .142
H(116)= .129	H(117)= .1[illegible]9	H(118)= .[illegible]85	H(119)= .[illegible]58	H(12[illegible])= .[illegible]3
H(121)= .[illegible]	H(			

INTRE HMAX= .7[illegible] SI HMIN= .[illegible] SE TRASEAZA 11LINII ECHIPOTENTIALE

COORDONATELE LINIEI ECHIPOTENTIALE DE VALOARE C= .[illegible]
LINIA ECHIPOTENTIALA ARE 12PUNCTE

XT(1)= .[illegible]	YT(1)= 1[illegible]	XT(2)= 1[illegible]	YT(2)= 1[illegible]	XT(3)= 2[illegible]	YT(3)= 1[illegible]
XT(4)= 3[illegible]	YT(4)= 1[illegible]	XT(5)= 4[illegible].00	YT(5)= 100.[illegible]	XT(6)= 5[illegible]	YT(6)= 1[illegible]
XT(7)= 60.[illegible]	YT(7)= 1[illegible]	XT(8)= 7[illegible].00	YT(8)= 100.[illegible]	XT(9)= 8[illegible]	YT(9)= 1[illegible]
XT(1[illegible])= 90.[illegible]	YT(1[illegible])= 1[illegible]	XT(11)= 1[illegible]	YT(11)= .[illegible]	XT(12)= 1[illegible]	YT(12)= 1[illegible]

COORDONATELE LINIEI ECHIPOTENTIALE 1 DE VALOARE C= .[illegible]7
LINIA ECHIPOTENTIALA ARE 3[illegible]PUNCTE

XT(1)= 1[illegible]	YT(1)= 84.77	XT(2)= 14.65	YT(2)= 84.65	XT(3)= 2[illegible]	YT(3)= 84.37
XT(4)= 24.2[illegible]	YT(4)= 84.20	XT(5)= 30.00	YT(5)= 83.70	XT(6)= 33.51	YT(6)= 83.51

BUPT

XT(7)=	40.00	YT(7)=	82.76	XT(8)=	42.59	YT(8)=	82.59	XT(9)=	50.00	YT(9)=	81.56
XT(10)=	51.46	YT(10)=	81.46	XT(11)=	60.00	YT(11)=	80.17	XT(12)=	60.15	YT(12)=	80.15
XT(13)=	61.19	YT(13)=	80.00	XT(14)=	80.20	YT(14)=	77.18	XT(15)=	86.61	YT(15)=	76.61
XT(16)=	90.00	YT(16)=	76.09	XT(17)=	95.91	YT(17)=	75.91	XT(18)=	100.00	YT(18)=	75.69
XT(19)=	10.00	YT(19)=	84.77	XT(20)=	4.86	YT(20)=	84.86	XT(21)=	.00	YT(21)=	84.97
XT(22)=	68.91	YT(22)=	78.91	XT(23)=	61.19	YT(23)=	80.00	XT(24)=	70.05	YT(24)=	78.64
XT(25)=	77.69	YT(25)=	77.69	XT(26)=	80.00	YT(26)=	77.18	XT(27)=	91.25	YT(27)=	.00
XT(28)=	91.25	YT(28)=	.00	XT(29)=	70.05	YT(29)=	78.64	XT(30)=	68.91	YT(30)=	78.91

COORDONATELE LINIEI ECHIPOTENTIALE 2 DE VALOARE C= .14
LINIA ECHIPOTENTIALA ARE 40PUNCTE

XT(1)=	10.00	YT(1)=	70.04	XT(2)=	10.04	YT(2)=	70.04	XT(3)=	10.49	YT(3)=	70.15
XT(4)=	30.00	YT(4)=	67.86	XT(5)=	36.73	YT(5)=	66.73	XT(6)=	40.00	YT(6)=	65.85
XT(7)=	44.87	YT(7)=	64.87	XT(8)=	50.00	YT(8)=	63.17	XT(9)=	52.58	YT(9)=	62.58
XT(10)=	59.43	YT(10)=	60.00	XT(11)=	70.00	YT(11)=	55.52	XT(12)=	74.11	YT(12)=	54.11
XT(13)=	80.00	YT(13)=	50.67	XT(14)=	80.53	YT(14)=	50.53	XT(15)=	81.73	YT(15)=	50.37
XT(16)=	95.51	YT(16)=	20.00	XT(17)=	100.00	YT(17)=	25.08	XT(18)=	10.00	YT(18)=	70.04
XT(19)=	.31	YT(19)=	70.31	XT(20)=	.00	YT(20)=	70.32	XT(21)=	19.32	YT(21)=	69.32
XT(22)=	10.49	YT(22)=	70.00	XT(23)=	20.00	YT(23)=	69.24	XT(24)=	28.21	YT(24)=	68.21
XT(25)=	30.00	YT(25)=	67.86	XT(26)=	60.00	YT(26)=	59.78	XT(27)=	67.20	YT(27)=	57.27
XT(28)=	70.02	YT(28)=	55.52	XT(29)=	82.50	YT(29)=	.00	XT(30)=	82.50	YT(30)=	.00
XT(31)=	20.00	YT(31)=	69.24	XT(32)=	19.32	YT(32)=	69.32	XT(33)=	85.55	YT(33)=	5.55
XT(34)=	86.74	YT(34)=	10.00	XT(35)=	90.09	YT(35)=	44.86	XT(36)=	93.99	YT(36)=	43.99
XT(37)=	100.00	YT(37)=	41.77	XT(38)=	60.00	YT(38)=	59.78	XT(39)=	59.86	YT(39)=	59.86
XT(40)=	59.43	YT(40)=	60.00	XT(							

COORDONATELE LINIEI ECHIPOTENTIALE 3 DE VALOARE C= .21
LINIA ECHIPOTENTIALA ARE 13PUNCTE

XT(1)=	10.00	YT(1)=	56.47	XT(2)=	15.85	YT(2)=	55.85	XT(3)=	20.00	YT(3)=	55.18
XT(4)=	24.42	YT(4)=	54.42	XT(5)=	30.00	YT(5)=	52.94	XT(6)=	32.38	YT(6)=	52.38
XT(7)=	38.85	YT(7)=	50.00	XT(8)=	50.00	YT(8)=	44.91	XT(9)=	53.34	YT(9)=	43.34
XT(10)=	57.56	YT(10)=	40.00	XT(11)=	70.00	YT(11)=	24.89	XT(12)=	71.82	YT(12)=	21.82
XT(13)=	72.03	YT(13)=	20.00	XT(							

COORDONATELE LINIEI ECHIPOTENTIALE 4 DE VALOARE C= .28

BUPT

XT(7)=	4[illegible]	YT(7)=	82.76	XT(8)=	42.59	YT(8)=	82.59	XT(9)=	5[illegible]	YT(9)=	81.56
XT(1[illegible])=	51.46	YT(1[illegible])=	81.46	XT(11)=	6[illegible]	YT(11)=	8[illegible].17	XT(12)=	6[illegible].15	YT(12)=	8 .15
XT(13)=	61.19	YT(13)=	8[illegible]	XT(14)=	80.[illegible]	YT(14)=	77.18	XT(15)=	86.61	YT(15)=	76.61
XT(16)=	9[illegible]	YT(16)=	76.[illegible]9	XT(17)=	95.91	YT(17)=	75.91	XT(18)=	1[illegible]	YT(18)=	75.69
XT(19)=	1[illegible]	YT(19)=	84.77	XT(2[illegible])=	4.86	YT(2[illegible])=	84.86	XT(21)=	. [illegible]	YT(21)=	84.9[illegible]
XT(22)=	68.91	YT(22)=	78.91	XT(23)=	61.19	YT(23)=	8[illegible]	XT(24)=	7[illegible].	YT(24)=	78.64
XT(25)=	77.69	YT(25)=	77.69	XT(26)=	9[illegible]	YT(26)=	77.18	XT(27)=	91.25	YT(27)=	.[illegible]
XT(28)=	91.25	YT(28)=	.[illegible]	XT(29)=	7[illegible]	YT(29)=	78.64	XT(3[illegible])=	68.91	YT(3[illegible])=	78.91

COORDONATELE LINIEI ECHIPOTENTIALE [illegible] DE VALOARE C= .14
LINIA ECHIPOTENTIALA ARE 4[illegible]PUNCTE

XT(1)=	1[illegible]	YT(1)=	7[illegible]4	XT(2)=	1[illegible]4	YT([illegible])=	7[illegible].[illegible]4	XT(3)=	1[illegible].49	YT(3)=	7[illegible]
XT(4)=	3[illegible]	YT(4)=	67.86	XT(5)=	36.73	YT(5)=	66.73	XT(6)=	4[illegible]	YT(6)=	65.85
XT(7)=	44.87	YT(7)=	64.87	XT(8)=	5[illegible]	YT(8)=	63.17	XT(9)=	52.58	YT(9)=	62.58
XT(1[illegible])=	59.43	YT(1[illegible])=	6[illegible]	XT(11)=	7[illegible]	YT(11)=	55.52	XT(12)=	74.11	YT(12)=	54.11
XT(13)=	8[illegible]	YT(13)=	5[illegible].67	XT(14)=	8[illegible].53	YT(14)=	5[illegible].53	XT(15)=	81.73	YT(15)=	5[illegible]
XT(16)=	95.51	YT(16)=	2[illegible]	XT(17)=	1[illegible]	YT(17)=	25.[illegible]8	XT(18)=	1[illegible]	YT(18)=	7[illegible]. 4
XT(19)=	.31	YT(19)=	7[illegible].31	XT(2[illegible])=	.[illegible]	YT(2[illegible])=	7[illegible].32	XT(21)=	19.32	YT(21)=	69.32
XT(22)=	1[illegible].49	YT(22)=	7[illegible]	XT(23)=	2[illegible]	YT(23)=	69.24	XT(24)=	2[illegible].21	YT(24)=	68.21
XT(25)=	3[illegible]	YT(25)=	67.86	XT(26)=	6[illegible]	YT(26)=	59.78	XT(27)=	67.2[illegible]	YT(27)=	57.2[illegible]
XT(28)=	7[illegible]	YT(28)=	55.52	XT(29)=	82.5[illegible]	YT(29)=	. [illegible]	XT(3[illegible])=	82.5[illegible]	YT(3[illegible])=	.[illegible]
XT(31)=	2[illegible]	YT(31)=	69.24	XT(32)=	19.32	YT(32)=	69.32	XT(33)=	85.55	YT(33)=	5.55
XT(34)=	86.74	YT(34)=	1[illegible]	XT(35)=	9[illegible]	YT(35)=	44.86	XT(36)=	93.99	YT(36)=	43.99
XT(37)=	1[illegible]	YT(37)=	41.77	XT(38)=	6[illegible]	YT(38)=	59.78	XT(39)=	59.86	YT(39)=	59.86
XT(4)=	59.43	YT(4[illegible])=	6[illegible]	XT(							

COORDONATELE LINIEI ECHIPOTENTIALE 3 DE VALOARE C= .21
LINIA ECHIPOTENTIALA ARE 13PUNCTE

XT(1)=	1[illegible]	YT(1)=	56.47	XT(2)=	15.85	YT(2)=	55.85	XT(3)=	2[illegible]	YT(3)=	55.18
XT(4)=	24.42	YT(4)=	54.42	XT(5)=	3[illegible]	YT(5)=	52.94	XT(6)=	32.38	YT(6)=	52.38
XT(7)=	38.85	YT(7)=	5[illegible]	XT(8)=	5[illegible]	YT(8)=	44.91	XT(9)=	53.34	YT(9)=	43.34
XT(1)=	57.56	YT(1[illegible])=	4[illegible]	XT(11)=	7[illegible]	YT(11)=	24.89	XT(12)=	71.82	YT(12)=	21.82
XT(13)=	72.[illegible]3	YT(13)=	2[illegible]	XT(							

COORDONATELE LINIEI ECHIPOTENTIALE 4 DE VALOARE C= .28

BUPT

LINIA ECHIPOTENTIALA ARE 11PUNCTE

XT(1)= 10.00 YT(1)= 44.18 XT(2)= 13.67 YT(2)= 43.67 XT(3)= 20.00 YT(3)= 42.36

XT(4)= 21.92 YT(4)= 41.92 XT(5)= 27.48 YT(5)= 4 .00 XT(6)= 40.00 YT(6)= 34.45

XT(7)= 42.94 YT(7)= 32.94 XT(8)= 46.40 YT(8)= 30.00 XT(9)= 60.00 YT(9)= 13.79

XT(10)= 61.46 YT(10)= 11.46 XT(11)= 61.76 YT(11)= 10.00 XT(

COORDONATELE LINIEI ECHIPOTENTIALE 5 DE VALOARE C= .35
LINIA ECHIPOTENTIALA ARE 23PUNCTE

XT(1)= 10.00 YT(1)= 33.31 XT(2)= 12.82 YT(2)= 32.82 XT(3)= 20.00 YT(3)= 30.92

XT(4)= 20.72 YT(4)= 30.72 XT(5)= 22.34 YT(5)= 30.00 XT(6)= 40.00 YT(6)= 2 .45

XT(7)= 40.27 YT(7)= 20.27 XT(8)= 40.51 YT(8)= 20.00 XT(9)= 55.71 YT(9)= .

XT(10)= 55.71 YT(10)= .00 XT(11)= 10.0 YT(11)= 33.31 XT(12)= 3.87 YT(12)= 33.87

XT(13)= .00 YT(13)= 34.10 XT(14)= 28.32 YT(14)= 28.32 XT(15)= 22.34 YT(15)= 3

XT(16)= 30.00 YT(16)= 26.92 XT(17)= 34.64 YT(17)= 24.64 XT(18)= 40.00 YT(18)= 2 .45

XT(19)= 50.00 YT(19)= 9.77 XT(20)= 54.32 YT(20)= 4.32 XT(21)= 49.92 YT(21)= 9.92

XT(22)= 50.00 YT(22)= 9.77 XT(23)= 49.84 YT(23)= 10.00 XT(

COORDONATELE LINIEI ECHIPOTENTIALE 6 DE VALOARE C= .42
LINIA ECHIPOTENTIALA ARE 16PUNCTE

XT(1)= 1 .00 YT(1)= 23.87 XT(2)= 13.19 YT(2)= 23.19 XT(3)= 20.00 YT(3)= 20.88

XT(4)= 20.65 YT(4)= 20.65 XT(5)= 21.83 YT(5)= 20.00 XT(6)= 40.00 YT(6)= 8. 2

XT(7)= 44.13 YT(7)= 4.13 XT(8)= 46.25 YT(8)= .00 XT(9)= 10.00 YT(9)= 23.87

XT(10)= 4.55 YT(10)= 24.55 XT(11)= .00 YT(11)= 24.89 XT(12)= 27.58 YT(12)= 17.58

XT(13)= 21.83 YT(13)= 20.00 XT(14)= 30.00 YT(14)= 15.85 XT(15)= 33.66 YT(15)= 13.66

XT(16)= 37.65 YT(16)= 10.00 XT(

COORDONATELE LINIEI ECHIPOTENTIALE 7 DE VALOARE C= .49
LINIA ECHIPOTENTIALA ARE 14PUNCTE

XT(1)= 10.00 YT(1)= 15.66 XT(2)= 14.49 YT(2)= 14.49 XT(3)= 20.00 YT(3)= 12. 9

XT(4)= 21.47 YT(4)= 11.47 XT(5)= 23.53 YT(5)= 10.00 XT(6)= 36.67 YT(6)= .

XT(7)= 36.67 YT(7)= .00 XT(8)= 10.00 YT(8)= 15.66 XT(9)= 6.40 YT(9)= 16.4

XT(10)= .00 YT(10)= 17. 2 XT(11)= 27.81 YT(11)= 7.81 XT(12)= 23.53 YT(12)= 1 .

XT(13)= 30.00 YT(13)= 5.65 XT(14)= 33.27 YT(14)= 3.27 XT(

COORDONATELE LINIEI ECHIPOTENTIALE 8 DE VALOARE C= .56
LINIA ECHIPOTENTIALA ARE 10PUNCTE

XT(1)= 10.00 YT(1)= 8.33 XT(2)= 16.29 YT(2)= 6.29 XT(3)= 20.00 YT(3)= 4.29

XT(4)= 22.84 YT(4)= 2.84 XT(5)= 25.71 YT(5)= .00 XT(6)= 1 .00 YT(6)= 8.33

BUPT

XT(7)= 8.86 YT(7)= 8.86 XT(8)= .51 YT(8)= 1.00 XT(9)= .09 YT(9)= .09

XT(10)= .00 YT(10)= 10.09 XT(

COORDONATELE LINIEI ECHIPOTENTIALE 9 DE VALOARE C= .63
LINIA ECHIPOTENTIALA ARE 6PUNCTE

XT(1)= 10.00 YT(1)= 1.85 XT(2)= 11.40 YT(2)= 1.40 XT(3)= 14.00 YT(3)= .00

XT(4)= 10.00 YT(4)= 1.85 XT(5)= 4.43 YT(5)= 4.43 XT(6)= .00 YT(6)= 5.13

COORDONATELE LINIEI ECHIPOTENTIALE10 DE VALOARE C= .70
LINIA ECHIPOTENTIALA ARE 1PUNCTE

XT(1)= .00 YT(1)= .00 XT(

LINIILE DE CURENT PORNESC DIN 9 NODURI SI CARE SINT

N= 12 N= 23 N= 34 N= 45 N= 56 N= 67 N= 78 N= 89

N=100 N=

COORDONATELE LINIEI DE CURENT 1

LINIA DE CURENT ARE 20 PUNCTE

XT(1)= 10.00 YT(1)= .00 XT(2)= 13.25 YT(2)= 10.00 XT(3)= 15.76 YT(3)= 15.76

XT(4)= 16.86 YT(4)= 20.00 XT(5)= 20.00 YT(5)= 29.26 XT(6)= 20.25 YT(6)= 30.00

XT(7)= 20.45 YT(7)= 30.45 XT(8)= 23.17 YT(8)= 40.00 XT(9)= 24.84 YT(9)= 44.84

XT(10)= 26.21 YT(10)= 50.00 XT(11)= 28.17 YT(11)= 58.17 XT(12)= 28.49 YT(12)= 60.00

XT(13)= 30.00 YT(13)= 67.79 XT(14)= 30.45 YT(14)= 70.00 XT(15)= 30.55 YT(15)= 70.55

XT(16)= 31.57 YT(16)= 80.00 XT(17)= 31.78 YT(17)= 81.78 XT(18)= 32.21 YT(18)= 90.00

XT(19)= 32.34 YT(19)= 92.34 XT(20)= 32.34 YT(20)= 100.00 XT(

COORDONATELE LINIEI DE CURENT 2

LINIA DE CURENT ARE 21 PUNCTE

XT(1)= 20.00 YT(1)= .00 XT(2)= 20.00 YT(2)= .00 XT(3)= 25.12 YT(3)= 10.00

XT(4)= 30.00 YT(4)= 16.86 XT(5)= 32.24 YT(5)= 20.00 XT(6)= 40.00 YT(6)= 29.92

XT(7)= 40.36 YT(7)= 30.00 XT(8)= 40.42 YT(8)= 30.42 XT(9)= 45.34 YT(9)= 40.00

XT(10)= 50.00 YT(10)= 47.33 XT(11)= 51.69 YT(11)= 59.00 XT(12)= 53.76 YT(12)= 53.76

XT(13)= 55.85 YT(13)= 60.00 XT(14)= 59.38 YT(14)= 69.38 XT(15)= 59.52 YT(15)= 70.00

XT(16)= 60.00 YT(16)= 71.92 XT(17)= 62.01 YT(17)= 80.00 XT(18)= 62.37 YT(18)= 82.37

XT(19)= 62.87 YT(19)= 90.00 XT(20)= 63.09 YT(20)= 93.09 XT(21)= 63. 9 YT(21)= 100.00

COORDONATELE LINIEI DE CURENT 3

LINIA DE CURENT ARE 20 PUNCTE

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XT(1)= 30.00 YT(1)= .00 XT(2)= 37.28 YT(2)= 10.00 XT(3)= 40.00 YT(3)= 12.92

XT(4)= 46.59 YT(4)= 20.00 XT(5)= 50.00 YT(5)= 23.08 XT(6)= 57.67 YT(6)= 30.00

XT(7)= 60.00 YT(7)= 32.07 XT(8)= 68.96 YT(8)= 40.00 XT(9)= 70.00 YT(9)= 41.11

XT(10)= 78.39 YT(10)= 50.00 XT(11)= 80.00 YT(11)= 52.75 XT(12)= 84.23 YT(12)= 60.00

XT(13)= 85.67 YT(13)= 65.67 XT(14)= 86.34 YT(14)= 70.00 XT(15)= 87.47 YT(15)= 77.47

XT(16)= 87.69 YT(16)= 80.00 XT(17)= 88.42 YT(17)= 88.42 XT(18)= 88.48 YT(18)= 90.00

XT(19)= 88.84 YT(19)= 98.84 XT(20)= 88.84 YT(20)= 100.00 XT(

COORDONATELE LINIEI DE CURENT 4

LINIA DE CURENT ARE 14 PUNCTE

XT(1)= 40.00 YT(1)= .00 XT(2)= 40.00 YT(2)= .00 XT(3)= 49.39 YT(3)= 10.00

XT(4)= 50.00 YT(4)= 10.43 XT(5)= 51.43 YT(5)= 11.43 XT(6)= 60.00 YT(6)= 17.43

XT(7)= 63.67 YT(7)= 20.00 XT(8)= 70.00 YT(8)= 22.37 XT(9)= 73.79 YT(9)= 23.79

XT(10)= 80.00 YT(10)= 26.12 XT(11)= 89.78 YT(11)= 29.78 XT(12)= 90.00 YT(12)= 29.86

XT(13)= 90.37 YT(13)= 30.00 XT(14)= 100.00 YT(14)= 34.37 XT(

COORDONATELE LINIEI DE CURENT 5

LINIA DE CURENT ARE 3 PUNCTE

XT(1)= 50.00 YT(1)= .00 XT(2)= 50.00 YT(2)= .00 XT(3)= 50.00 YT(3)= .00

COORDONATELE LINIEI DE CURENT 5

LINIA DE CURENT ARE 8 PUNCTE

XT(1)= 50.00 YT(1)= .00 XT(2)= 60.00 YT(2)= 4.21 XT(3)= 67.26 YT(3)= 7.26

XT(4)= 70.00 YT(4)= 8.42 XT(5)= 73.77 YT(5)= 10.00 XT(6)= 79.30 YT(6)= 10.30

XT(7)= 70.00 YT(7)= 10.21 XT(8)= 69.33 YT(8)= 10.00 XT(

COORDONATELE LINIEI DE CURENT 6

LINIA DE CURENT ARE 8 PUNCTE

XT(1)= 60.00 YT(1)= .00 XT(2)= 70.00 YT(2)= 1.19 XT(3)= 71.35 YT(3)= 1.35

XT(4)= 80.00 YT(4)= 2.39 XT(5)= 82.71 YT(5)= 2.71 XT(6)= 90.00 YT(6)= 3.58

XT(7)= 94.06 YT(7)= 4.06 XT(8)= 100.00 YT(8)= 4.77 XT(

COORDONATELE LINIEI DE CURENT 6

LINIA DE CURENT ARE 1 PUNCTE

XT(1)= 60.00 YT(1)= .00 XT(

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COORDONATELE LINIEI DE CURENT 7

LINIA DE CURENT ARE 1 PUNCTE

XT(1)= 7[illegible] YT(1)= .[illegible] XT(

COORDONATELE LINIEI DE CURENT 8

LINIA DE CURENT ARE 4 PUNCTE

XT(1)= 8[illegible] YT(1)= .[illegible] XT(2)= 71.41 YT(2)= 1.41 XT(3)= 7[illegible] YT(3)= 1.17

XT(4)= 62.95 YT(4)= .[illegible] XT(

COORDONATELE LINIEI DE CURENT 8

LINIA DE CURENT ARE 1 PUNCTE

XT(1)= 8[illegible] YT(1)= .[illegible] XT(

COORDONATELE LINIEI DE CURENT 9

LINIA DE CURENT ARE 8 PUNCTE

XT(1)= 9[illegible] YT(1)= .[illegible] XT(2)= 83.55 YT(2)= 3.55 XT(3)= 8[illegible] YT(3)= 4.5[illegible]

XT(4)= 75.66 YT(4)= 5.66 XT(5)= 7[illegible] YT(5)= 4.71 XT(6)= 63.66 YT(6)= 3.66

XT(7)= 6[illegible] YT(7)= 1.87 XT(8)= 56.19 YT(8)= .[illegible] XT(

COORDONATELE LINIEI DE CURENT 9

LINIA DE CURENT ARE 1 PUNCTE

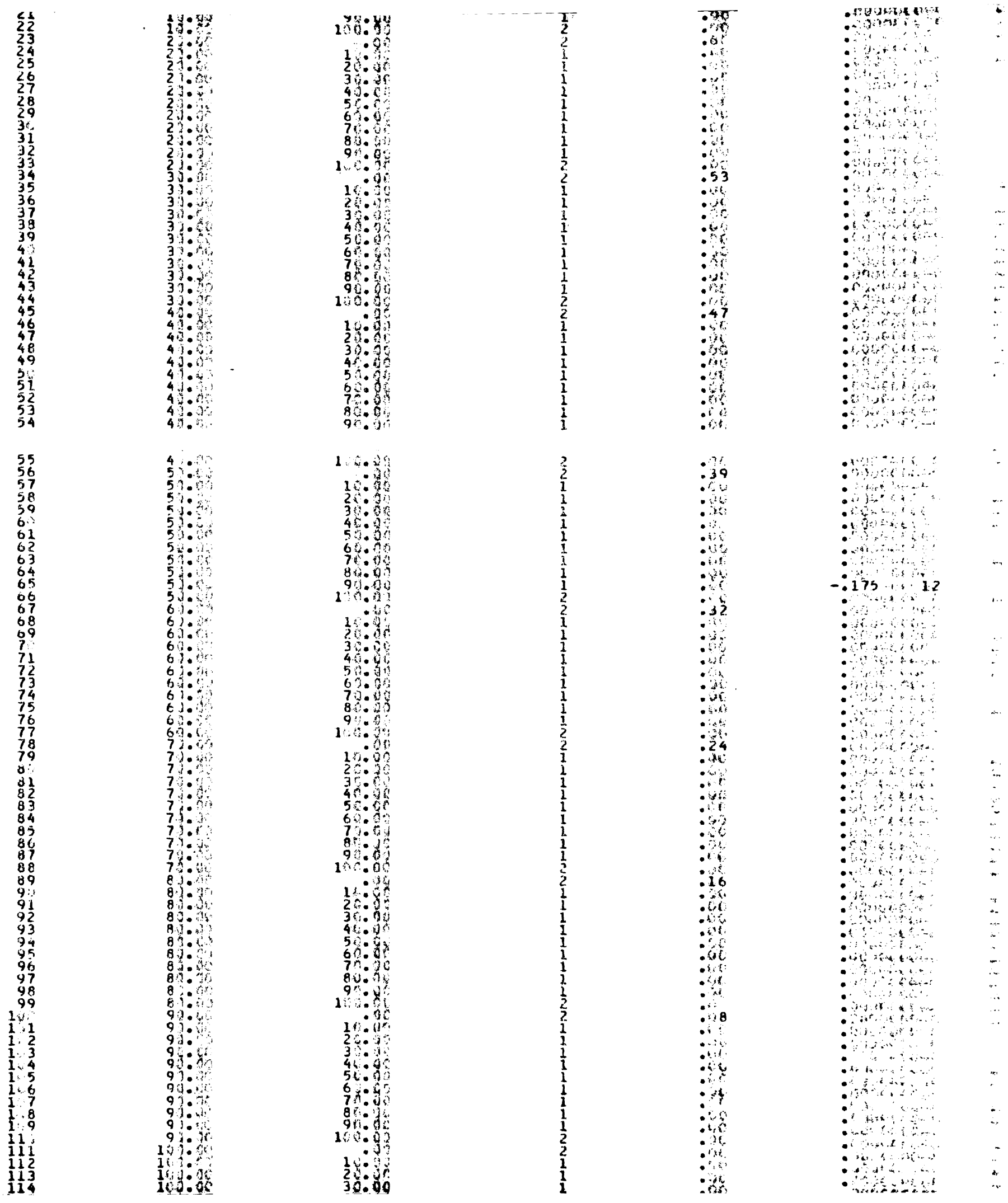
XT(1)= 9[illegible] YT(1)= .[illegible] XT(

P R O B L E M A 2

DATE NODALE

NOD	X (M)	Y (M)	CODMAR	HMAR	QCON (M**3/SEC)	ICNO
1	[illegible]	[illegible]	2	.7	[illegible]	[illegible]
2	[illegible]	1[illegible]	1	[illegible]	[illegible]	[illegible]
3	[illegible]	2[illegible]	1	[illegible]	[illegible]	[illegible]
4	[illegible]	3[illegible]	1	[illegible]	[illegible]	[illegible]
5	[illegible]	4[illegible]	1	[illegible]	[illegible]	[illegible]
6	[illegible]	5[illegible]	1	[illegible]	[illegible]	[illegible]
7	[illegible]	6[illegible]	1	[illegible]	[illegible]	[illegible]
8	[illegible]	7[illegible]	1	[illegible]	[illegible]	[illegible]
9	[illegible]	8[illegible]	1	[illegible]	[illegible]	[illegible]
10	[illegible]	9[illegible]	1	[illegible]	[illegible]	[illegible]
11	[illegible]	1[illegible]	2	[illegible]	[illegible]	[illegible]
12	1[illegible]	[illegible]	2	.65	[illegible]	[illegible]
13	1[illegible]	1[illegible]	1	[illegible]	[illegible]	[illegible]
14	1[illegible]	2[illegible]	1	[illegible]	[illegible]	[illegible]
15	1[illegible]	3[illegible]	1	[illegible]	[illegible]	[illegible]
16	1[illegible]	4[illegible]	1	[illegible]	[illegible]	[illegible]
17	1[illegible]	5[illegible]	1	[illegible]	[illegible]	[illegible]
18	1[illegible]	6[illegible]	1	[illegible]	[illegible]	[illegible]
19	1[illegible]	7[illegible]	1	[illegible]	[illegible]	[illegible]
20	1[illegible]	8[illegible]	1	[illegible]	[illegible]	[illegible]

BUPT



115	1	48	1		
116	1	50	1		
117	1	60	1		
118	1	70	1		
119	1	80	1		
120	1	90	1		
121	1	100	2		

MBAND= 13COLOANE

NODURILE DOMENIULUI EXPLORATE IN SENS ANTIORAR

NR ELEMENT	NOD 1	NOD 2	NOD 3	COEFIC DE TRANSMISIVITATE TX (MP/SEC)	TY (MP/SEC)	QDIST (MC/S/MP)	ICEL
1	1	12	13	.04233180	.04233180		
2	1	13	2	.04233180	.04233180		
3	2	13	14	.04233180	.04233180		
4	2	14	3	.04233180	.04233180		
5	3	14	15	.04233180	.04233180		
6	3	15	4	.04233180	.04233180		
7	4	15	16	.04233180	.04233180		
8	4	16	5	.04233180	.04233180		
9	5	16	17	.04233180	.04233180		
10	5	17	6	.04233180	.04233180		
11	6	17	18	.04233180	.04233180		
12	6	18	7	.04233180	.04233180		
13	7	18	19	.04233180	.04233180		
14	7	19	8	.04233180	.04233180		
15	8	19	20	.04233180	.04233180		
16	8	20	9	.04233180	.04233180		
17	9	20	21	.04233180	.04233180		
18	9	21	10	.04233180	.04233180		
19	10	21	22	.04233180	.04233180		
20	10	22	11	.04233180	.04233180		
21	12	23	24	.04233180	.04233180		
22	12	24	13	.04233180	.04233180		
23	13	24	25	.04233180	.04233180		
24	13	25	14	.04233180	.04233180		
25	14	25	26	.04233180	.04233180		
26	14	26	15	.04233180	.04233180		
27	15	26	27	.04233180	.04233180		
28	15	27	16	.04233180	.04233180		
29	16	27	28	.04233180	.04233180		
30	16	28	17	.04233180	.04233180		
31	17	28	29	.04233180	.04233180		
32	17	29	18	.04233180	.04233180		
33	18	29	30	.04233180	.04233180		
34	18	30	19	.04233180	.04233180		
35	19	30	31	.04233180	.04233180		
36	19	31	20	.04233180	.04233180		
37	20	31	32	.04233180	.04233180		
38	20	32	21	.04233180	.04233180		
39	21	32	33	.04233180	.04233180		
40	21	33	22	.04233180	.04233180		
41	23	34	35	.04233180	.04233180		
42	23	35	24	.04233180	.04233180		
43	24	35	36	.04233180	.04233180		
44	24	36	25	.04233180	.04233180		
45	25	36	37	.04233180	.04233180		
46	25	37	26	.04233180	.04233180		
47	26	37	38	.04233180	.04233180		
48	26	38	27	.04233180	.04233180		
49	27	38	39	.04233180	.04233180		
50	27	39	28	.04233180	.04233180		
51	28	39	40	.04233180	.04233180		
52	28	40	29	.04233180	.04233180		
53	29	40	41	.04233180	.04233180		
54	29	41	30	.04233180	.04233180		
55	30	41	42	.04233180	.04233180		
56	30	42	31	.04233180	.04233180		
57	31	42	43	.04233180	.04233180		
58	31	43	32	.04233180	.04233180		
59	32	43	44	.04233180	.04233180		
60	32	44	33	.04233180	.04233180		
61	34	45	46	.04233180	.04233180		
62	34	46	35	.04233180	.04233180		
63	35	46	47	.04233180	.04233180		
64	35	47	36	.04233180	.04233180		
65	36	47	48	.04233180	.04233180		
66	36	48	37	.04233180	.04233180		

BUPT

67	37	48	49	.04233180	.0423318	.
68	37	49	38	.04233180	.0423318	.
69	38	49	5	.04233180	.0423318	.
7	38	5	39	.04233180	.0423318	.
71	39	5	51	.04233180	.0423318	.
72	39	51	4	.04233180	.0423318	.
73	4	51	52	.04233180	.0423318	.
74	4	52	41	.04233180	.0423318	.
75	41	52	53	.04233180	.0423318	.
76	41	53	42	.04233180	.0423318	.
77	42	53	54	.04233180	.0423318	.
78	42	54	43	.04233180	.0423318	.
79	43	54	55	.04233180	.0423318	.
8	43	55	44	.04233180	.0423318	.
81	45	56	57	.04233180	.0423318	.
82	45	57	46	.04233180	.0423318	.
83	46	57	58	.04233180	.0423318	.
84	46	58	47	.04233180	.0423318	.
85	47	58	59	.04233180	.0423318	.
86	47	59	48	.04233180	.0423318	.
87	48	59	6	.04233180	.0423318	.
88	48	6	49	.04233180	.0423318	.
89	49	6	61	.04233180	.0423318	.
9	49	61	5	.04233180	.0423318	.
91	5	61	62	.04233180	.0423318	.
92	5	62	51	.04233180	.0423318	.
93	51	62	63	.04233180	.0423318	.
94	51	63	52	.04233180	.0423318	.
95	52	63	64	.04233180	.0423318	.
96	52	64	53	.04233180	.0423318	.
97	53	64	65	.04233180	.0423318	.
98	53	65	54	.04233180	.0423318	.
99	54	65	66	.04233180	.0423318	.
1	54	6	55	.04233180	.0423318	.
1 1	56	67	68	.04233180	.0423318	.
1 2	56	68	57	.04233180	.0423318	.
1 3	57	68	69	.04233180	.0423318	.
1 4	57	69	58	.04233180	.0423318	.
1 5	58	69	7	.04233180	.0423318	.
1 6	58	7	59	.04233180	.0423318	.
1 7	59	7	71	.04233180	.0423318	.
1 8	59	71	6	.04233180	.0423318	.
1 9	6	71	72	.04233180	.0423318	.
11	6	72	61	.04233180	.0423318	.
111	61	72	73	.04233180	.0423318	.
112	61	73	62	.04233180	.0423318	.
113	62	73	74	.04233180	.0423318	.
114	62	74	63	.04233180	.0423318	.
115	63	74	75	.04233180	.0423318	.
116	63	75	64	.04233180	.0423318	.
117	64	75	76	.04233180	.0423318	.
118	64	76	65	.04233180	.0423318	.
119	65	76	77	.04233180	.0423318	.
12	65	77	66	.04233180	.0423318	.
121	67	78	79	.04233180	.0423318	.
122	67	79	68	.04233180	.0423318	.
123	68	79	8	.04233180	.0423318	.
124	68	8	69	.04233180	.0423318	.
125	69	8	81	.04233180	.0423318	.
126	69	81	7	.04233180	.0423318	.
127	7	81	82	.04233180	.0423318	.
128	7	82	71	.04233180	.0423318	.
129	71	82	83	.04233180	.0423318	.
13	71	83	72	.04233180	.0423318	.
131	72	83	84	.04233180	.0423318	.
132	72	84	73	.04233180	.0423318	.
133	73	84	85	.04233180	.0423318	.
134	73	85	74	.04233180	.0423316	.
135	74	85	86	.04233180	.0423318	.
136	74	86	75	.04233180	.0423318	.
137	75	86	87	.04233180	.0423318	.
138	75	87	76	.04233180	.0423318	.
139	76	87	88	.04233180	.0423316	.
14	76	88	77	.04233180	.0423318	.
141	78	89	9	.04233180	.0423318	.
142	78	9	79	.04233180	.0423318	.
143	79	9	91	.04233180	.0423318	.
144	79	91	8	.04233180	.0423318	.
145	8	91	92	.04233180	.0423318	.
146	8	92	81	.04233180	.0423318	.
147	81	92	93	.04233180	.0423318	.
148	81	93	82	.04233180	.0423318	.
149	82	93	94	.04233180	.0423318	.
15	82	94	83	.04233180	.0423316	.
151	83	94	95	.04233180	.0423318	.
152	83	95	84	.04233180	.0423318	.
153	84	95	96	.04233180	.0423318	.
154	84	96	85	.04233180	.0423318	.
155	85	96	97	.04233180	.0423318	.
156	85	97	86	.04233180	.0423318	.
157	86	97	98	.04233180	.0423318	.
158	86	98	87	.04233180	.0423318	.
159	87	98	99	.04233180	.0423318	.
16	87	99	88	.04233180	.0423318	.

BUPT

161	89	100	101	.04233180	.04233180	[illegible]
162	89	101	90	.04233180	.04233180	[illegible]
163	90	101	102	.04233180	.04233180	[illegible]
164	90	102	91	.04233180	.04233180	[illegible]
165	91	102	103	.04233180	.04233180	[illegible]
166	91	103	92	.04233180	.04233180	[illegible]
167	92	103	104	.04233180	.04233180	[illegible]
168	92	104	93	.04233180	.04233180	[illegible]
169	93	104	105	.04233180	.04233180	[illegible]
170	93	105	94	.04233180	.04233180	[illegible]
171	94	105	106	.04233180	.04233180	[illegible]
172	94	106	95	.04233180	.04233180	[illegible]
173	95	106	107	.04233180	.04233180	[illegible]
174	95	107	96	.04233180	.04233180	[illegible]
175	96	107	108	.04233180	.04233180	[illegible]
176	96	108	97	.04233180	.04233180	[illegible]
177	97	108	109	.04233180	.04233180	[illegible]
178	97	109	98	.04233180	.04233180	[illegible]
179	98	109	110	.04233180	.04233180	[illegible]
180	98	110	99	.04233180	.04233180	[illegible]
181	100	111	112	.04233180	.04233180	[illegible]
182	100	112	111	.04233180	.04233180	[illegible]
183	101	112	113	.04233180	.04233180	[illegible]
184	101	113	112	.04233180	.04233180	[illegible]
185	102	113	114	.04233180	.04233180	[illegible]
186	102	114	113	.04233180	.04233180	[illegible]
187	103	114	115	.04233180	.04233180	[illegible]
188	103	115	114	.04233180	.04233180	[illegible]
189	104	115	116	.04233180	.04233180	[illegible]
190	104	116	115	.04233180	.04233180	[illegible]
191	105	116	117	.04233180	.04233180	[illegible]
192	105	117	116	.04233180	.04233180	[illegible]
193	106	117	118	.04233180	.04233180	[illegible]
194	106	118	117	.04233180	.04233180	[illegible]
195	107	118	119	.04233180	.04233180	[illegible]
196	107	119	118	.04233180	.04233180	[illegible]
197	108	119	120	.04233180	.04233180	[illegible]
198	108	120	119	.04233180	.04233180	[illegible]
199	109	120	121	.04233180	.04233180	[illegible]
200	109	121	11[illegible]	.04233180	.04233180	[illegible]

P(1)=	.296322629E-01	P(2)=	.148161314E-01	P(3)=	[illegible]	P(4)=	[illegible]
P(5)=	[illegible]	P(6)=	[illegible]	P(7)=	[illegible]	P(8)=	[illegible]
P(9)=	[illegible]	P(10)=	[illegible]	P(11)=	[illegible]	P(12)=	.55[illegible]313555E-01
P(13)=	.275156721E-01	P(14)=	[illegible]	P(15)=	[illegible]	P(16)=	[illegible]
P(17)=	[illegible]	P(18)=	[illegible]	P(19)=	[illegible]	P(20)=	[illegible]
P(21)=	[illegible]	P(22)=	[illegible]	P(23)=	.5[illegible]7981777E-01	P(24)=	.25399[illegible]651E-01
P(25)=	[illegible]	P(26)=	[illegible]	P(27)=	[illegible]	P(28)=	[illegible]
P(29)=	[illegible]	P(30)=	[illegible]	P(31)=	[illegible]	P(32)=	[illegible]
P(33)=	[illegible]	P(34)=	.448717177E-01	P(35)=	.224358551E-01	P(36)=	[illegible]
P(37)=	[illegible]	P(38)=	[illegible]	P(39)=	[illegible]	P(40)=	[illegible]
P(41)=	[illegible]	P(42)=	[illegible]	P(43)=	[illegible]	P(44)=	[illegible]
P(45)=	.397919[illegible]81E-01	P(46)=	.198959522E-01	P(47)=	[illegible]	P(48)=	[illegible]
P(49)=	[illegible]	P(50)=	[illegible]	P(51)=	[illegible]	P(52)=	[illegible]
P(53)=	[illegible]	P(54)=	[illegible]	P(55)=	[illegible]	P(56)=	.33[illegible]188125E-01
P(57)=	.165[illegible]94[illegible]25E-01	P(58)=	[illegible]	P(59)=	[illegible]	P(60)=	[illegible]
P(61)=	[illegible]	P(62)=	[illegible]	P(63)=	[illegible]	P(64)=	[illegible]
P(65)=	-.175[illegible]12	P(66)=	[illegible]	P(67)=	.27[illegible]92360[illegible]E-01	P(68)=	.135461763E-01
P(69)=	[illegible]	P(70)=	[illegible]	P(71)=	[illegible]	P(72)=	[illegible]
P(73)=	[illegible]	P(74)=	[illegible]	P(75)=	[illegible]	P(76)=	[illegible]
P(77)=	[illegible]	P(78)=	.2[illegible]3192718E-01	P(79)=	.1[illegible]1596341E-01	P(80)=	[illegible]
P(81)=	[illegible]	P(82)=	[illegible]	P(83)=	[illegible]	P(84)=	[illegible]
P(85)=	[illegible]	P(86)=	[illegible]	P(87)=	[illegible]	P(88)=	[illegible]
P(89)=	.1354618[illegible]E-01	P(90)=	.6773[illegible]9185E-02	P(91)=	[illegible]	P(92)=	[illegible]
P(93)=	[illegible]	P(94)=	[illegible]	P(95)=	[illegible]	P(96)=	[illegible]
P(97)=	[illegible]	P(98)=	[illegible]	P(99)=	[illegible]	P(100)=	.6773[illegible]8813E-02
P(101)=	.338654[illegible]6E-02	P(102)=	[illegible]	P(103)=	[illegible]	P(104)=	[illegible]

P(1 5)= .
P(1 9)= .
P(113)= .
P(117)= .
P(121)= .

P(1 6)= .
P(11)= .
P(114)= .
P(118)= .
P(

P(1 7)= .
P(111)= .
P(115)= .
P(119)= .

P(1 8)= .
P(112)= .
P(116)= .
P(12)= .

R E Z U L T A T E
****

INALTIMILE PIEZOMETRICE IN NODURILE RETELEI
****

H(1)= .7	H(2)= .522	H(3)= .383	H(4)= .265	H(5)= .164
H(6)= .178	H(7)= .089	H(8)= -.037	H(9)= -.155	H(1)= -. 4
H(11)= .1	H(12)= .65	H(13)= .503	H(14)= .372	H(15)= .257
H(16)= .156	H(17)= .069	H(18)= -.002	H(19)= -.051	H(2)= -. 71
H(21)= -.052	H(22)= .0	H(23)= .65	H(24)= .466	H(25)= .345
H(26)= .235	H(27)= .135	H(28)= .544	H(29)= -.035	H(3)= -. 96
H(31)= -.125	H(32)= -.098	H(33)= .0	H(34)= .53	H(35)= .417
H(36)= .3 8	H(37)= .2 4	H(38)= .1 4	H(39)= .0 8	H(4)= -. 86
H(41)= -.173	H(42)= -.235	H(43)= -.215	H(44)= .0	H(45)= .47
H(46)= .364	H(47)= .265	H(48)= .168	H(49)= .171	H(5)= -. 31
H(51)= -.143	H(52)= -.274	H(53)= -.427	H(54)= -.527	H(55)= .
H(56)= .39	H(57)= .3 5	H(58)= .219	H(59)= .132	H(6)= . 41
H(61)= -.2	H(62)= -.181	H(63)= -.355	H(64)= -.671	H(65)= -1.466
H(66)= .0	H(67)= .32	H(68)= .247	H(69)= .175	H(7)= .1 1
H(71)= .121	H(72)= -.067	H(73)= -.168	H(74)= -.292	H(75)= -.437
H(76)= -.532	H(77)= .0	H(78)= .24	H(79)= .188	H(8)= .134
H(81)= .174	H(82)= .089	H(83)= -.061	H(84)= -.134	H(85)= -.2 5
H(86)= -.255	H(87)= -.225	H(88)= .0	H(89)= .16	H(9)= .133
H(91)= .097	H(92)= .053	H(93)= .083	H(94)= -.051	H(95)= -.1 2
H(96)= -.141	H(97)= -.153	H(98)= -.111	H(99)= .0	H(1)= .1 8
H(1 1)= .185	H(1 2)= .069	H(1 3)= .039	H(1 4)= -.0 1	H(1 5)= -. 44
H(1 6)= -.181	H(1 7)= -.105	H(1 8)= -.104	H(1 9)= -.068	H(11)= .
H(111)= .0	H(112)= .057	H(113)= .057	H(114)= .033	H(115)= -. 3
H(116)= -.041	H(117)= -.074	H(118)= -.093	H(119)= -.089	H(12)= -. 56
H(121)= .0	H(			

INTRE HMAX= .7 SI HMIN= -1.466 SE TRASEAZA 11LINII ECHIPOTENTIALE

COORDONATELE LINIEI ECHIPOTENTIALE DE VALOARE C= -1.47
LINIA ECHIPOTENTIALA ARE 1PUNCTE

XT(1)= 5 . YT(1)= 9 . XT(

COORDONATELE LINIEI ECHIPOTENTIALE 1 DE VALOARE C= -1.25
LINIA ECHIPOTENTIALA ARE 4PUNCTE

XT(1)= 5 . YT(1)= 87.27 XT(2)= 52.32 YT(2)= 9 .00 XT(3)= 51.48 YT(3)= 91.48

XT(4)= 5 . YT(4)= 91.48 XT(

BUPT

COORDONATELE LINIEI ECHIPOTENTIALE 2 DE VALOARE C= -1.[illegible]
LINIA ECHIPOTENTIALA ARE 4PUNCTE

XT(1)= 5[illegible] YT(1)= 84.55 XT(2)= 54.64 YT(2)= 9[illegible] XT(3)= 52.95 YT(3)= 92.95

XT(4)= 5 . YT(4)= 92.95 XT(

COORDONATELE LINIEI ECHIPOTENTIALE 3 DE VALOARE C= -.82
LINIA ECHIPOTENTIALA ARE 4PUNCTE

XT(1)= 5[illegible] YT(1)= 81.82 XT(2)= 56.96 YT(2)= 9[illegible] XT(3)= 54.43 YT(3)= 94.43

XT(4)= 5[illegible] YT(4)= 94.43 XT(

COORDONATELE LINIEI ECHIPOTENTIALE 4 DE VALOARE C= -.6
LINIA ECHIPOTENTIALA ARE 6PUNCTE

XT(1)= 5 .[illegible] YT(1)= 77.74 XT(2)= 53.[illegible]6 YT(2)= 8[illegible] XT(3)= 55.14 YT(3)= 85.14

XT(4)= 59.28 YT(4)= 9 . XT(5)= 55.91 YT(5)= 95.91 XT(6)= 5[illegible] YT(6)= 95.91

COORDONATELE LINIEI ECHIPOTENTIALE 5 DE VALOARE C= -.38
LINIA ECHIPOTENTIALA ARE 14PUNCTE

XT(1)= 4 . YT(1)= 77.13 XT(2)= 42.74 YT(2)= 72.74 XT(3)= 5[illegible] YT(3)= 7 .9

XT(4)= 53.43 YT(4)= 73.43 XT(5)= 6[illegible] YT(5)= 76.27 XT(6)= 62.98 YT(6)= 8 .

XT(7)= 62.56 YT(7)= 82.56 XT(8)= 64.85 YT(8)= 9 . XT(9)= 62.8[illegible] YT(9)= 92.8

XT(1)= 6 . YT(1)= 92.8 XT(11)= 57.39 YT(11)= 97.39 XT(12)= 5 . YT(12)= 97.39

XT(13)= 42.73 YT(13)= 92.73 XT(14)= 4[illegible] YT(14)= 92.73 XT(

COORDONATELE LINIEI ECHIPOTENTIALE 6 DE VALOARE C= -.17
LINIA ECHIPOTENTIALA ARE 12PUNCTE

XT(1)= 3[illegible] YT(1)= 69.29 XT(2)= 34.28 YT(2)= 64.28 XT(3)= 4[illegible] YT(3)= 61.78

XT(4)= 41.1 YT(4)= 51.1 XT(5)= 46.[illegible]9 YT(5)= 6 . XT(6)= 5[illegible] YT(6)= 98.86

XT(7)= 58.86 YT(7)= 98.86 XT(8)= 6[illegible] YT(5)= 96.87 XT(9)= 66.87 YT(9)= 96.87

XT(1)= 7[illegible] YT(1)= 92.59 XT(11)= 72.59 YT(11)= 92.59 XT(12)= 75.13 YT(12)= 9 .

COORDONATELE LINIEI ECHIPOTENTIALE 7 DE VALOARE C= .[illegible]5
LINIA ECHIPOTENTIALA ARE 33PUNCTE

XT(1)= 1 .[illegible] YT(1)= 52.68 XT(2)= 11.84 YT(2)= 51.84 XT(3)= 17.7[illegible] YT(3)= 5[illegible]

XT(4)= 3[illegible] YT(4)= 45.63 XT(5)= 34.[illegible]1 YT(5)= 44. 1 XT(6)= 4 . YT(6)= 42. 1

XT(7)= 41.57 YT(7)= 41.57 XT(8)= 46.93 YT(8)= 4 . XT(9)= 6 . YT(9)= 36.34

XT(1)= 65.53 YT(1)= 35.53 XT(11)= 7[illegible] YT(11)= 33.71 XT(12)= 73.36 YT(12)= 33.36

XT(13)= 8 . YT(13)= 3 .58 XT(14)= 8[illegible].54 YT(14)= 3 .54 XT(15)= 82. 2 YT(15)= 3 .

XT(16)= 93.73 YT(16)= . XT(17)= 93.73 YT(17)= . XT(18)= 1 . YT(18)= 52.68

XT(19)= 3.48 YT(19)= 53.48 XT(2[illegible])= .[illegible] YT(2)= 54. 5 XT(21)= 19.49 YT(21)= 49.49

BUPT

XT(25)= 39.[illegible] YT(25)= 45.63 XT(26)= 5[illegible] YT(26)= 39.[illegible] XT(27)= 57.38 YT(27)= 37.38

XT(28)= 6[illegible] YT(28)= 36.34 XT(29)= 9[illegible] YT(29)= 26.21 XT(3[illegible])= 95.25 YT(3[illegible])= 25.25

XT(31)= 100.00 YT(31)= 22.83 XT(32)= 2[illegible] YT(32)= 49.37 XT(33)= 19.49 YT(33)= 49.49

COORDONATELE LINIEI ECHIPOTENTIALE 8 DE VALOARE C= .27
LINIA ECHIPOTENTIALA ARE 22PUNCTE

XT(1)= 1[illegible] YT(1)= 29.18 XT(2)= 17.71 YT(2)= 27.71 XT(3)= 2[illegible] YT(3)= 27.15

XT(4)= 25.56 YT(4)= 25.56 XT(5)= 3[illegible] YT(5)= 23.95 XT(6)= 32.93 YT(6)= 22.93

XT(7)= 39.55 YT(7)= 2[illegible] XT(8)= 5[illegible] YT(8)= 14.48 XT(9)= 52.96 YT(9)= 12.96

XT(1[illegible])= 56.63 YT(1[illegible])= 1[illegible] XT(11)= 66.65 YT(11)= .[illegible] XT(12)= 66.65 YT(12)= .[illegible]

XT(13)= 1[illegible] YT(13)= 29.18 XT(14)= 9.25 YT(14)= 29.25 XT(15)= .[illegible] YT(15)= 29.89

XT(16)= 39.87 YT(16)= 19.87 XT(17)= 39.55 YT(17)= 2[illegible] XT(18)= 4[illegible] YT(18)= 19.81

XT(19)= 46.73 YT(19)= 16.73 XT(2[illegible])= 5[illegible] YT(2[illegible])= 14.48 XT(21)= 6[illegible] YT(21)= 7.31

XT(22)= 64.[illegible]4 YT(22)= 4.[illegible]4 XT(

COORDONATELE LINIEI ECHIPOTENTIALE 9 DE VALOARE C= .48
LINIA ECHIPOTENTIALA ARE 14PUNCTE

XT(1)= 1[illegible] YT(1)= 11.47 XT(2)= 11.22 YT(2)= 11.22 XT(3)= 15.29 YT(3)= 1[illegible]

XT(4)= 3[illegible] YT(4)= 4.13 XT(5)= 32.81 YT(5)= 2.81 XT(6)= 37.77 YT(6)= .[illegible]

XT(7)= 1[illegible] YT(7)= 11.47 XT(8)= 2.58 YT(8)= 12.58 XT(9)= .[illegible] YT(9)= 12.78

XT(1[illegible])= 19.[illegible]7 YT(1[illegible])= 9.[illegible]7 XT(11)= 15.29 YT(11)= 1[illegible] XT(12)= 2[illegible] YT(12)= 8.72

XT(13)= 26.38 YT(13)= 6.38 XT(14)= 3[illegible] YT(14)= 4.13 XT(

COORDONATELE LINIEI ECHIPOTENTIALE1[illegible] DE VALOARE C= .7[illegible]
LINIA ECHIPOTENTIALA ARE 1PUNCTE

XT(1)= .[illegible] YT(1)= .[illegible] XT(

LINIILE DE CURENT PORNESC DIN 1[illegible] NODURI SI CARE SINT

N= 12 N= 23 N= 34 N= 45 N= 56 N= 67 N= 78 N= 89

N=1[illegible] N= 65 N=

COORDONATELE LINIEI DE CURENT 1

LINIA DE CURENT ARE 23 PUNCTE

XT(1)= 1[illegible] YT(1)= .[illegible] XT(2)= 1[illegible] YT(2)= .[illegible] XT(3)= 12.46 YT(3)= 1[illegible]

XT(4)= 13.52 YT(4)= 13.52 XT(5)= 14.84 YT(5)= 2[illegible] XT(6)= 16.4[illegible] YT(6)= 26.4[illegible]

XT(7)= 17.[illegible]8 YT(7)= 3[illegible] XT(8)= 19.06 YT(8)= 39.[illegible]6 XT(9)= 19.26 YT(9)= 4[illegible]

XT(1[illegible])= 2[illegible] YT(1[illegible])= 43.16 XT(11)= 21.6[illegible] YT(11)= 5[illegible] XT(12)= 22.62 YT(12)= 52.62

BUPT

XT(13)= 27.36 YT(13)= 60.00 XT(14)= 30.00 YT(14)= 64.52 XT(15)= 33.20 YT(15)= 7 .

XT(16)= 39.60 YT(16)= 79.60 XT(17)= 30.00 YT(17)= 76.49 XT(18)= 24.81 YT(18)= 74.81

XT(19)= 20.00 YT(19)= 73.54 XT(20)= 11.23 YT(20)= 71.23 XT(21)= 1 . YT(21)= 7 .79

XT(22)= 7.78 YT(22)= 70.00 XT(23)= .00 YT(23)= 67.22 XT(

COORDONATELE LINIEI DE CURENT 2

LINIA DE CURENT ARE 3 PUNCTE

XT(1)= 20.00 YT(1)= .00 XT(2)= 20.00 YT(2)= .00 XT(3)= 20.00 YT(3)= .

COORDONATELE LINIEI DE CURENT 3

LINIA DE CURENT ARE 33 PUNCTE

XT(1)= 30.00 YT(1)= .00 XT(2)= 30.00 YT(2)= .00 XT(3)= 34.68 YT(3)= 1 .

XT(4)= 39.97 YT(4)= 19.97 XT(5)= 39.98 YT(5)= 2 .00 XT(6)= 4 . YT(6)= 2 . 4

XT(7)= 44.41 YT(7)= 30.00 XT(8)= 47.25 YT(8)= 37.25 XT(9)= 48. 8 YT(9)= 4 .

XT(10)= 50.00 YT(10)= 46.54 XT(11)= 51.02 YT(11)= 5 .00 XT(12)= 51. 9 YT(12)= 51. 9

XT(13)= 50.15 YT(13)= 6 .00 XT(14)= 50.13 YT(14)= 6 .13 XT(15)= 5 . 1 YT(15)= 6 .51

XT(16)= 47.46 YT(16)= 67.46 XT(17)= 49.02 YT(17)= 7 . XT(18)= 5 . YT(18)= 73.88

XT(19)= 51.55 YT(19)= 8 .00 XT(20)= 50.45 YT(20)= 80.45 XT(21)= 5 . YT(21)= 8 .83

XT(22)= 45. 4 YT(22)= 85. 4 XT(23)= 40.00 YT(23)= 84.51 XT(24)= 33.85 YT(24)= 83.85

XT(25)= 3 .00 YT(25)= 84.1 XT(26)= 24.45 YT(26)= 84.45 XT(27)= 2 . YT(27)= 85.47

XT(28)= 16.32 YT(28)= 86.32 XT(29)= 10.00 YT(29)= 88.88 XT(3)= 9.2 YT(3)= 89.2

XT(31)= 8.54 YT(31)= 9 .00 XT(32)= 6.90 YT(32)= 96.90 XT(33)= 6.9 YT(33)= 1 .

COORDONATELE LINIEI DE CURENT 4

LINIA DE CURENT ARE 32 PUNCTE

XT(1)= 40.00 YT(1)= .00 XT(2)= 45.59 YT(2)= 10.00 XT(3)= 5 . YT(3)= 16.41

XT(4)= 52.47 YT(4)= 2 .00 XT(5)= 56.06 YT(5)= 26. 6 XT(6)= 57.49 YT(6)= 3 .

XT(7)= 6 .00 YT(7)= 36.34 XT(8)= 61.45 YT(8)= 4 . XT(9)= 61.74 YT(9)= 41.74

XT(10)= 61.15 YT(10)= 5 .00 XT(11)= 61.06 YT(11)= 51. 6 XT(12)= 6 . YT(12)= 54.2

XT(13)= 58.53 YT(13)= 58.53 XT(14)= 58.38 YT(14)= 6 .00 XT(15)= 57.58 YT(15)= 67.58

XT(16)= 56.7 YT(16)= 7 .00 XT(17)= 54.68 YT(17)= 74.68 XT(18)= 5 .75 YT(18)= 8 .

XT(19)= 5 .21 YT(19)= 8 .21 XT(20)= 5 .00 YT(20)= 8 .40 XT(21)= 44.81 YT(21)= 84.81

XT(22)= 4 .00 YT(22)= 84.3 XT(23)= 33.62 YT(23)= 83.62 XT(24)= 3 . YT(24)= 83.85

BUPT

XT(25)= 24.22 YT(25)= 84.22 XT(26)= 20.00 YT(26)= 85.19 XT(27)= 16. 9 YT(27)= 86. 9

XT(28)= 1 .00 YT(28)= 88.56 XT(29)= 8.97 YT(29)= 88.97 XT(3)= 8.11 YT(3)= 9 .

XT(31)= 6.55 YT(31)= 96.55 XT(32)= 6.55 YT(32)= 100. XT(

COORDONATELE LINIEI DE CURENT 5

LINIA DE CURENT ARE 3 PUNCTE

XT(1)= 5 .00 YT(1)= .0 XT(2)= 5 .00 YT(2)= .00 XT(3)= 50.0 YT(3)= .

COORDONATELE LINIEI DE CURENT 5

LINIA DE CURENT ARE 1 PUNCTE

XT(1)= 5 .00 YT(1)= .00 XT(

COORDONATELE LINIEI DE CURENT 6

LINIA DE CURENT ARE 22 PUNCTE

XT(1)= 6 .00 YT(1)= .00 XT(2)= 70.00 YT(2)= 6.45 XT(3)= 75.5 YT(3)= 1 .

XT(4)= 8 .00 YT(4)= 12.85 XT(5)= 87.76 YT(5)= 17.76 XT(6)= 90. 5 YT(6)= 19.18

XT(7)= 91.3 YT(7)= 2 . XT(8)= 92.64 YT(8)= 22.64 XT(9)= 94. YT(9)= 3 .

XT(1)= 94.75 YT(10)= 34.75 XT(11)= 94.94 YT(11)= 40. 0 XT(12)= 95.12 YT(12)= 45.12

XT(13)= 94.83 YT(13)= 5 .00 XT(14)= 94.48 YT(14)= 54.48 XT(15)= 93.45 YT(15)= 6 .

XT(16)= 92.52 YT(16)= 62.52 XT(17)= 9 .0 YT(17)= 67.70 XT(18)= 89.25 YT(18)= 69.25

XT(19)= 88.55 YT(19)= 7 . XT(20)= 90.00 YT(2)= 7 .5 XT(21)= 9 .5 YT(21)= 7 . 5

XT(22)= 100.00 YT(22)= 70.36 XT(

COORDONATELE LINIEI DE CURENT 6

LINIA DE CURENT ARE 7 PUNCTE

XT(1)= 6 .00 YT(1)= .00 XT(2)= 68.09 YT(2)= 10.00 XT(3)= 70.00 YT(3)= 11.78

XT(4)= 78.86 YT(4)= 2 .00 XT(5)= 80.00 YT(5)= 21.37 XT(6)= 87.16 YT(6)= 3 .

XT(7)= 90.00 YT(7)= 37.72 XT(

COORDONATELE LINIEI DE CURENT 7

LINIA DE CURENT ARE 1 PUNCTE

XT(1)= 7 .00 YT(1)= .00 XT(

COORDONATELE LINIEI DE CURENT 8

LINIA DE CURENT ARE 3 PUNCTE

XT(1)= 8 .00 YT(1)= .00 XT(2)= 8 .00 YT(2)= .00 XT(3)= 80. YT(3)= .

BUPT

COORDONATELE LINIEI DE CURENT 8

LINIA DE CURENT ARE 1 PUNCTE

XT(1)= 80.00 YT(1)= .00 XT(

COORDONATELE LINIEI DE CURENT 9

LINIA DE CURENT ARE 4 PUNCTE

XT(1)= 90.00 YT(1)= .00 XT(2)= 80.55 YT(2)= .55 XT(3)= 80.00 YT(3)= .23

XT(4)= 79.59 YT(4)= .00 XT(

COORDONATELE LINIEI DE CURENT 9

LINIA DE CURENT ARE 1 PUNCTE

XT(1)= 90.00 YT(1)= .00 XT(

COORDONATELE LINIEI DE CURENT 10

LINIA DE CURENT ARE 8 PUNCTE

XT(1)= 50.00 YT(1)= 90.00 XT(2)= 40.00 YT(2)= 88.93 XT(3)= 38.81 YT(3)= 88.81

XT(4)= 30.00 YT(4)= 89.37 XT(5)= 29.41 YT(5)= 89.41 XT(6)= 26.82 YT(6)= 90.00

XT(7)= 24.41 YT(7)= 94.41 XT(8)= 24.41 YT(8)= 100.00 XT(

COORDONATELE LINIEI DE CURENT 11

LINIA DE CURENT ARE 3 PUNCTE

XT(1)= 50.00 YT(1)= 90.00 XT(2)= 46.10 YT(2)= 96.10 XT(3)= 46.10 YT(3)= 100.00

COORDONATELE LINIEI DE CURENT 12

LINIA DE CURENT ARE 30 PUNCTE

XT(1)= 50.00 YT(1)= 90.00 XT(2)= 50.00 YT(2)= 80.00 XT(3)= 50.00 YT(3)= 70.00

XT(4)= 50.00 YT(4)= 60.00 XT(5)= 50.00 YT(5)= 50.00 XT(6)= 50.00 YT(6)= 40.00

XT(7)= 50.00 YT(7)= 30.00 XT(8)= 50.00 YT(8)= 20.00 XT(9)= 50.00 YT(9)= 10.00

XT(10)= 50.00 YT(10)= .00 XT(11)= 56.84 YT(11)= 10.00 XT(12)= 60.00 YT(12)= 13.91

XT(13)= 64.91 YT(13)= 20.00 XT(14)= 70.00 YT(14)= 27.30 XT(15)= 71.88 YT(15)= 30.00

XT(16)= 73.23 YT(16)= 33.23 XT(17)= 73.93 YT(17)= 40.00 XT(18)= 74.49 YT(18)= 44.49

XT(19)= 73.72 YT(19)= 50.00 XT(20)= 73.12 YT(20)= 53.12 XT(21)= 70.10 YT(21)= 60.00

XT(22)= 70.06 YT(22)= 60.06 XT(23)= 70.00 YT(23)= 60.12 XT(24)= 65.32 YT(24)= 65.32

XT(25)= 62.04 YT(25)= 70.00 XT(26)= 60.75 YT(26)= 70.75 XT(27)= 60.00 YT(27)= 71.34

XT(28)= 55.19 YT(28)= 75.19 XT(29)= 51.64 YT(29)= 80.00 XT(30)= 50.47 YT(30)= 80.47

BUPT

COORDONATELE LINIEI DE CURENT 1

LINIA DE CURENT ARE 3 PUNCTE

XT(1)= 5.[illegible] YT(1)= 9.. XT(2)= 6. YT(2)= 95.7 XT(3)= 67.56 YT(3)= 1.

COORDONATELE LINIEI DE CURENT 1

LINIA DE CURENT ARE 2 PUNCTE

XT(1)= 5. YT(1)= 9. XT(2)= 3. YT(2)= 1[illegible]. XT(
STOP

MELFI 43

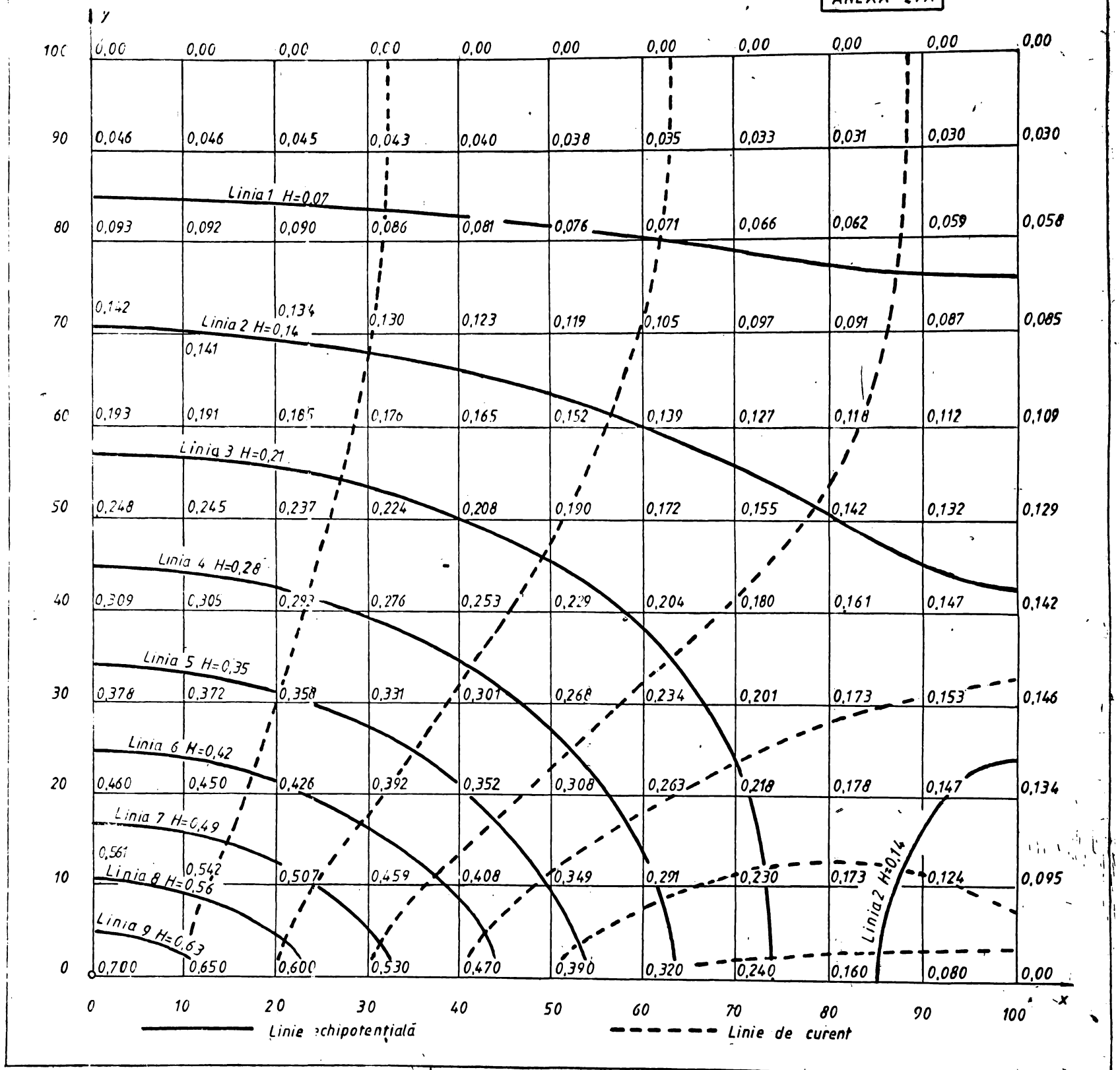
CENTRUL DE CALCUL AL I.P.T. TIMISOARA FELIX C-512 SIEM -
23 MELFINI AN = CMFI PH = [illegible]4 DATE = 28/[illegible]3/84- 38
H.DEB = 14H 59M 5S H.FIN = 15H [illegible]M 3 S TIME = [illegible]7866
LGP = 5' MEM = [illegible]44 LU = [illegible]2 65 IN = [illegible]331 ODE =

: EOJ A DL
: FST SAVE

BUPT

ANEXA 2

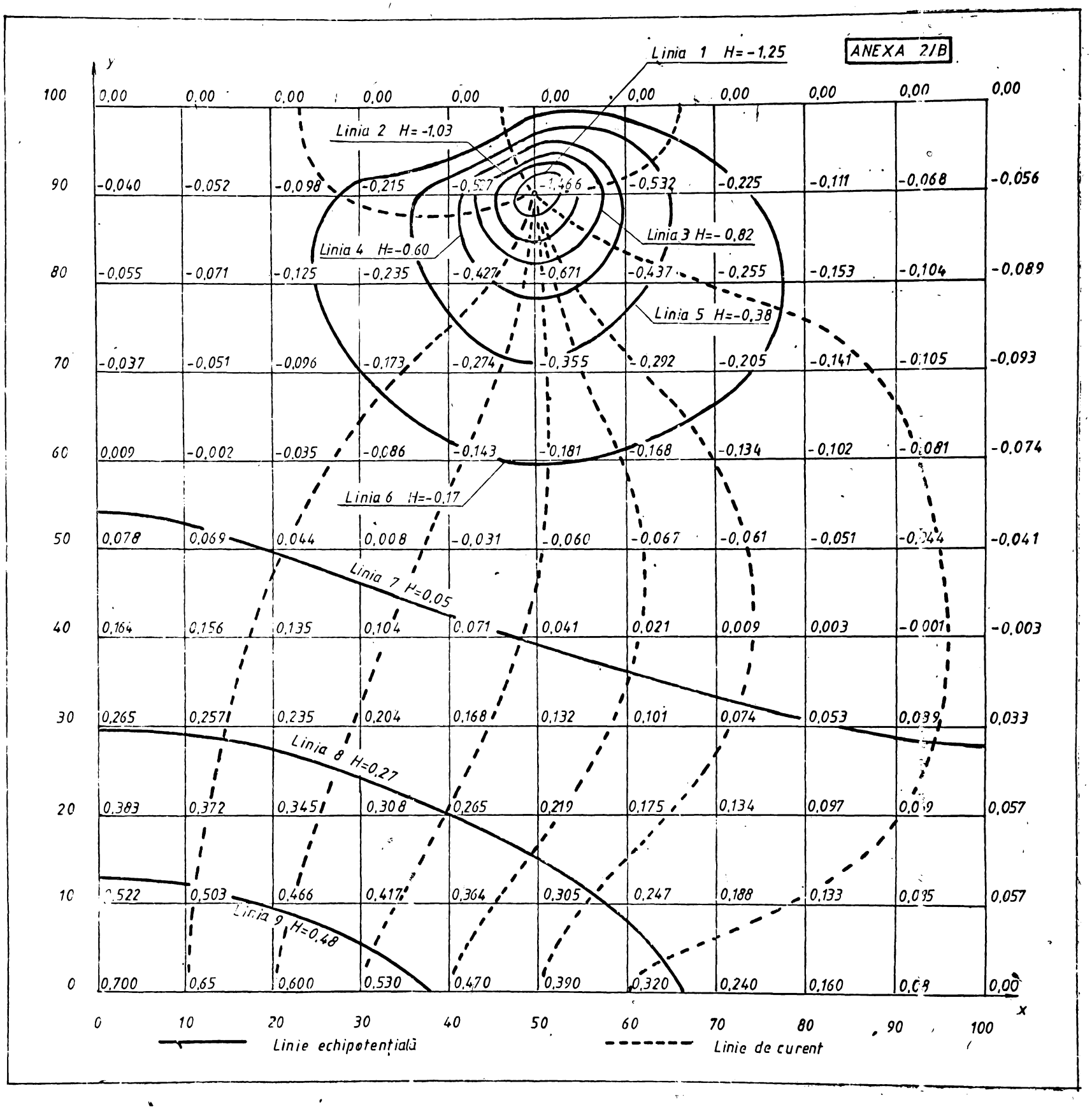
ANEXA 2/A



BIBLIOTECA CENTRALĂ

BUPT

ANEXA 2/B



BUPT

ANEXA 3

BUPT

```
        COMPILE FORTRAN
FORTRAN  STARTED
FORTRAN 16.06                                   IFCA        05/03/84  10.00.00                    0

C       1     C
C       2     C      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
C       3     C
C       4     C      PROGRAM ELABORAT DE ING POGANY ANDREI
C       5     C
C       6     C      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
C       7     C
              8           DIMENSION Z(8),A(8)
              9           READ(105,1)AA,BB,CI,ALFA,PI,RK
             10         1 FORMAT(2F5.2,2F10.8,2F12.9)
             11           WRITE(108,2) AA,BB,CI,ALFA,PI,RK
             12         2 FORMAT(' ',20X,'AA=',F5.2,5X,'BB=',F5.2,5X,'CI=',F10.8,5X,'ALFA=',
             13        *F10.8,5X,'PI=',F12.8,5X,'RK=',F12.9,//)
             14           EPS=1.0*10.**(-9)
             15           U2=(BB+AA)/2.
             16           U1=(BB-AA)/2.
             17           Z(5)=0.183434642495650
             18           Z(6)=0.525532409916329
             19           Z(7)=0.796666477413627
             20           Z(8)=0.960289856497536
             21           Z(1)=-Z(8)
             22           Z(2)=-Z(7)
             23           Z(3)=-Z(6)
             24           Z(4)=-Z(5)
             25           A(5)=0.362683783378362
             26           A(6)=0.313706645877887
             27           A(7)=0.222381034453374
             28           A(8)=0.101228536290376
             29           A(1)=A(8)
             30           A(2)=A(7)
             31           A(3)=A(6)
             32           A(4)=A(5)
             33           PRINT 30
             34        30 FORMAT(' ',6X,'XIA',9X,'YIA',9X,'V1',14X,'V2',14X,'VX',14X,'VY',12
             35        *X,'UNGHIUL',5X,'VITEZA  M/SEC',//,5X,110('-'),/,)
             36           I=1
             37           J=1
             38        25 J1=J-1
             39           XIA=FLOAT(J1)/5.0-2.0
```

BUPT

```
                      S1=0.
                      S2=0.
                      S3=0.
                      S4=0.
                      DO 11 L=1,8
                      XACP=H1*X(L)+H2
                      S1=S1+A(L)*F1(XACP,XIA,YIA,BB,ALFA)
FORTRAN 16.06                                    IFCA        05/03/84  10.00.00          1

                      S2=S2+A(L)*F2(XACP,XIA,YIA,BB,ALFA,PI)
                      S3=S3+A(L)*F3(XACP,XIA,YIA,BB,ALFA)
                      S4=S4+A(L)*F4(XACP,XIA,YIA,BB,ALFA)
                   11 CONTINUE
                      S1=S1*H1
                      S2=S2*H1
                      S3=S3*H1
                      S4=S4*H1
                      V1=((CI)/(4*PI))*S1
                      V2=((CI)/(2*PI))*S2
                      V3=((CI)/(2*PI))*S3
                      V4=((CI)/(2*PI))*S4
                      VX=ABS(V3)
                      IF(VX.LE.EPS) GO TO 19
                      HT=V4/V3
                      U=ATAN(HT)*(180./PI)
                      IF(U.GE.0.) GO TO 20
                      U=U+180.
                      GO TO 20
                   19 U=90.
                   20 VV=ABS(V4)
                      V=SQRT(VX**2+VV**2)
                      WRITE(108,12)XIA,YIA,V1,V2,V3,V4,U,V
                   12 FORMAT(' ',5X,2(F5.2,2X),6(G14.7,2X),/,)
                      I=I+1
                      IF(I.LE.14) GO TO 10
                      J=J+1
                      IF(J.LE.26) GO TO 23
                      GO TO 24
                   23 I=1
                      GO TO 25
                   24 STOP
                      END
FORTRAN 16.06                                    IFCA        05/03/84  10.00.24          2

                      FUNCTION F1(PX,XIA,YIA,BB,ALFA)
                      V1X=ABS(XIA-PX)
                      F1=(1-((PX/BB)**ALFA))*(ALOG(V1X**2+YIA**2))*(-1.)
                      RETURN
                      END
FORTRAN 16.06                                    IFCA        05/03/84  10.00.31          3

                      FUNCTION F2(PX,XIA,YIA,BB,ALFA,PI)
                      VA=ABS(XIA-PX)
                      IF(VA.LE.EPS) GO TO 40
                      VTT=(YIA)/(XIA-PX)
                      AC1=ATAN(VTT)
                      IF(AC1.GE.0.) GO TO 41
                      AC1=AC1+PI
                      GO TO 41
                   40 AC1=PI
                   41 F2=(1-((PX/BB)**ALFA))*AC1
                      RETURN
                      END
FORTRAN 16.06                                    IFCA        05/03/84  10.00.38          4

                      FUNCTION F3(PX,XIA,YIA,BB,ALFA)
                      VV3=XIA-PX
                      R3=ABS(VV3)
                      R3=SQRT(R3**2+YIA**2)
                      F3=(1-((PX/BB)**ALFA))*((XIA-PX)/R3)
                      RETURN
                      END
FORTRAN 16.06                                    IFCA        05/03/84  10.00.45          5

                      FUNCTION F4(PX,XIA,YIA,BB,ALFA)
                      VV4=XIA-PX
                      R4=ABS(VV4)
                      R4=SQRT(R4**2+YIA**2)
                      F4=(1-((PX/BB)**ALFA))*(YIA/R4)
                      RETURN
                      END
FORTRAN 16.06                                    IFCA        05/03/84  10.00.45          6
```

BUPT

```
MODULE    FΣMDATA        TYPE    P     LONGUEUR     0758 (01880)
MODULE    F1             TYPE    P     LONGUEUR     0080 (00176)
MODULE    F2             TYPE    P     LONGUEUR     00F8 (00248)
MODULE    F3             TYPE    P     LONGUEUR     00D0 (00208)
MODULE    F4             TYPE    P     LONGUEUR     00D0 (00208)


 * FIN DE COMPILATION (PLUS HAUT NIVEAU D'ERREUR RENCONTRE = 0)              10.00.53
          O.E.N.-C.C.E.T.-OFICIUL DE CALCUL TIMISOARA SISTEM  P-193 / M16.A
          0018  IFCA        AN = 8021   PH = 0002   DATE = 05/03/84-065
          H.DEB = 09H 59M 55S   H.FIN = 10H 00M 57S   TIME = 00001875   CODE = 000
          LGP = 00052   MEM = 00013   LO = 00000123   IN = 00000113   PUN = 00000000

LINK
LINK     STARTED

LINK     16.50.00   05/03/84  10H01M40S                                          1


  SEGMENT   FΣMDATA   NO   1     IMPLANTATION      0
            MODULE  FΣMDATA     IMPLANTATION     98
            MODULE  F1          IMPLANTATION    7F0
            MODULE  F2          IMPLANTATION    8A0
            MODULE  F3          IMPLANTATION    998
            MODULE  F4          IMPLANTATION    A68
            MODULE  TDFSYSOT    IMPLANTATION    B38
            MODULE  TDFSYSIN    IMPLANTATION    BA8
            MODULE  IΣINIT      IMPLANTATION    C20
            MODULE  IΣREAD      IMPLANTATION   10D8
            MODULE  IΣIOI       IMPLANTATION   12F8
            MODULE  IΣENDIOL    IMPLANTATION   13C8
            MODULE  IΣPRINT     IMPLANTATION   13F0
            MODULE  IΣPERR1     IMPLANTATION   1640
            MODULE  FΣVFLOAT    IMPLANTATION   1700
            MODULE  FΣAATAN     IMPLANTATION   1730
            MODULE  FΣASQRT     IMPLANTATION   18H0
            MODULE  IΣSTOP      IMPLANTATION   1980
            MODULE  IΣPERR      IMPLANTATION   1A98
            MODULE  FΣAALOG     IMPLANTATION   1B30
            MODULE  FΣERR1      IMPLANTATION   1CC0
            MODULE  STOPRUN     IMPLANTATION   1DE8
            MODULE  IΣLECAR1    IMPLANTATION   1E58
            MODULE  IΣFORMA     IMPLANTATION   2148
            MODULE  IΣECRAR1    IMPLANTATION   3798
            MODULE  FΣAEXP      IMPLANTATION   3B00
            MODULE  IΣDONNEE    IMPLANTATION   3BA0
            MODULE  FΣPREP      IMPLANTATION   3C18
                                LONGUEUR DU SEGMENT 3D60

LINK     16.50.00   05/03/84  10H01M41S                                          2
                    IMPLANT. APRES TRAITEMENT OPTION FMS

  SEGMENT   FΣMDATA   NO   1     IMPLANTATION      0
                                LONGUEUR DU SEGMENT 58E8

LINK     16.50.00   05/03/84  10H01M41S                                          3

          0     ERREUR  EN EDITION DE LIENS
       ADRESSE DE LANCEMENT                    3D0
       LONGUEUR PLUS GRANDE BRANCHE           58E8
       LONGUEUR DU PROGRAMME EDITE            58E8

                PLUS HAUT NIVEAU D'ERREUR RENCONTRE  N=0   (PAS D'ERREUR)
          O.E.N.-C.C.E.T.-OFICIUL DE CALCUL TIMISOARA SISTEM  P-193 / M16.A
          0018  IFCA        AN = 8021   PH = 0003   DATE = 05/03/84-065
          H.DEB = 10H 00M 57S   H.FIN = 10H 01M 46S   TIME = 00001023   CODE = 000
          LGP = 00052   MEM = 00012   LO = 00000051   IN = 00000000   PUN = 00000000

.        RUN TIME:30,NL:50000
         STARTED
```

BUPT

AA= .00 BB= 1.00 C1= .00642033 ALFA=1.20862961 PI= 3.14159298 RK= .001411060

XIA	YIA	V1	V2	VX	VY	UNGHIUL	VITEZA M/SEC
-2.00	.00	-.4735764E-03	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-2.00	.20	-.4756644E-03	.1708652E-02	-.5570950E-03	.4800047E-04	175.0754	.5591591E-03
-2.00	.40	-.4818323E-03	.1661309E-02	-.5509865E-03	.9492892E-04	170.2245	.5591044E-03
-2.00	.60	-.4918091E-03	.1615340E-02	-.5412505E-03	.1398326E-03	165.5143	.5590217E-03
-2.00	.80	-.5051866E-03	.1571284E-02	-.5284734E-03	.1819670E-03	161.0001	.5589242E-03
-2.00	1.00	-.5214717E-03	.1529537E-02	-.5133371E-03	.2208379E-03	156.7226	.5588240E-03
-2.00	1.20	-.5401378E-03	.1490353E-02	-.4965307E-03	.2561968E-03	152.7075	.5587302E-03
-2.00	1.40	-.5606692E-03	.1453847E-02	-.4786900E-03	.2880029E-03	148.9669	.5586499E-03
-2.00	1.60	-.5825933E-03	.1420031E-02	-.4603562E-03	.3163712E-03	145.5019	.5585861E-03
-2.00	1.80	-.6054938E-03	.1388836E-02	-.4419624E-03	.3415204E-03	142.3054	.5585400E-03
-2.00	2.00	-.6290195E-03	.1360136E-02	-.4238363E-03	.3637257E-03	139.3646	.5585102E-03
-2.00	2.20	-.6528818E-03	.1333773E-02	-.4062124E-03	.3832851E-03	136.6634	.5584944E-03
-2.00	2.40	-.6768529E-03	.1309575E-02	-.3892484E-03	.4004966E-03	134.1840	.5584906E-03
-2.00	2.60	-.7007506E-03	.1287363E-02	-.3730406E-03	.4156425E-03	131.9081	.5584962E-03
-1.80	.00	-.4231660E-03	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-1.80	.20	-.4250733E-03	.1704095E-02	-.5566771E-03	.5253733E-04	174.6086	.5591507E-03
-1.80	.40	-.4330578E-03	.1652423E-02	-.5493776E-03	.1036669E-03	169.3140	.5590729E-03
-1.80	.60	-.4449314E-03	.1602538E-02	-.5378486E-03	.1521686E-03	164.2027	.5589600E-03
-1.80	.80	-.4607220E-03	.1555110E-02	-.5229022E-03	.1971406E-03	159.3429	.5588301E-03
-1.80	1.00	-.4797571E-03	.1510594E-02	-.5054513E-03	.2380470E-03	154.7815	.5587016E-03
-1.80	1.20	-.5013437E-03	.1469238E-02	-.4863809E-03	.2746892E-03	150.5439	.5585880E-03
-1.80	1.40	-.5248303E-03	.1431118E-02	-.4664627E-03	.3071330E-03	146.6379	.5584962E-03
-1.80	1.60	-.5496393E-03	.1396175E-02	-.4463191E-03	.3356228E-03	143.0576	.5584294E-03
-1.80	1.80	-.5752870E-03	.1364266E-02	-.4264168E-03	.3605054E-03	139.7878	.5583863E-03
-1.80	2.00	-.6013804E-03	.1335185E-02	-.4070832E-03	.3821696E-03	136.8080	.5583640E-03
-1.80	2.20	-.6276118E-03	.1308706E-02	-.3885331E-03	.4010070E-03	134.0949	.5583588E-03
-1.80	2.40	-.6537472E-03	.1284596E-02	-.3708920E-03	.4173876E-03	131.6244	.5583665E-03
-1.80	2.60	-.6796101E-03	.1262625E-02	-.3542218E-03	.4316478E-03	129.3732	.5583840E-03
-1.60	.00	-.3676934E-03	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-1.60	.20	-.3707625E-03	.1698576E-02	-.5561183E-03	.5802776E-04	174.0431	.5591374E-03
-1.60	.40	-.3797633E-03	.1641718E-02	-.5472444E-03	.1141553E-03	168.2171	.5590240E-03
-1.60	.60	-.3941208E-03	.1587247E-02	-.5333950E-03	.1667909E-03	162.6357	.5588643E-03
-1.60	.80	-.4130101E-03	.1535991E-02	-.5157271E-03	.2148474E-03	157.3838	.5586895E-03
-1.60	1.00	-.4354976E-03	.1488460E-02	-.4954780E-03	.2577824E-03	152.5134	.5585251E-03
-1.60	1.20	-.4606638E-03	.1444866E-02	-.4737810E-03	.2955170E-03	148.0465	.5583894E-03
-1.60	1.40	-.4876833E-03	.1405196E-02	-.4515608E-03	.3282984E-03	143.9817	.5582895E-03
-1.60	1.60	-.5158631E-03	.1369284E-02	-.4295092E-03	.3565631E-03	140.3018	.5582252E-03
-1.60	1.80	-.5446486E-03	.1336863E-02	-.4081018E-03	.3808299E-03	136.9798	.5581921E-03
-1.60	2.00	-.5736158E-03	.1307631E-02	-.3876397E-03	.4016289E-03	133.9846	.5581849E-03
-1.60	2.20	-.6024491E-03	.1281272E-02	-.3682913E-03	.4194577E-03	131.2837	.5581963E-03
-1.60	2.40	-.6309212E-03	.1257478E-02	-.3501310E-03	.4347642E-03	128.8457	.5582217E-03
-1.60	2.60	-.6588735E-03	.1235966E-02	-.3331702E-03	.4479371E-03	126.6414	.5582562E-03
-1.40	.00	-.3060102E-03	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-1.40	.20	-.3098564E-03	.1691750E-02	-.5553470E-03	.6481000E-04	173.3436	.5591158E-03

BUPT

-1.40	.40	-.3210690E-03	.1626574E-02	-.5843531E-03	.1269671E-03	166.8704	.5597487E-03
-1.40	.60	-.3387604E-03	.1568683E-02	-.5274224E-03	.1843539E-03	160.7336	.5587135E-03
-1.40	.80	-.3617031E-03	.1513099E-02	-.5063061E-03	.2356849E-03	155.0381	.5584739E-03
-1.40	1.00	-.3885762E-03	.1462348E-02	-.4826807E-03	.2805006E-03	149.8378	.5582662E-03
-1.40	1.20	-.4181536E-03	.1416543E-02	-.4579816E-03	.3189673E-03	145.1442	.5581104E-03
-1.40	1.40	-.4494009E-03	.1375505E-02	-.4332820E-03	.3516276E-03	140.9391	.5580101E-03
-1.40	1.60	-.4815015E-03	.1338888E-02	-.4093065E-03	.3791924E-03	137.1872	.5579593E-03
-1.40	1.80	-.5138470E-03	.1306270E-02	-.3864956E-03	.4024026E-03	133.8449	.5579486E-03
-1.40	2.00	-.5459997E-03	.1277207E-02	-.3650803E-03	.4219518E-03	130.8670	.5579668E-03
-1.40	2.20	-.5776579E-03	.1251276E-02	-.3451507E-03	.4384520E-03	128.2099	.5580045E-03
-1.40	2.40	-.6086228E-03	.1228086E-02	-.3267054E-03	.4524255E-03	125.8338	.5580548E-03
-1.40	2.60	-.6387678E-03	.1207290E-02	-.3096897E-03	.4643074E-03	123.7030	.5581120E-03
-1.20	.00	-.2365202E-03	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-1.20	.20	-.2414868E-03	.1683082E-02	-.5542364E-03	.7340444E-04	172.4555	.5590762E-03
-1.20	.40	-.2558399E-03	.1612064E-02	-.5402141E-03	.1429455E-03	165.1787	.5588068E-03
-1.20	.60	-.2781355E-03	.1545726E-02	-.5191781E-03	.2057541E-03	158.3812	.5584627E-03
-1.20	.80	-.3064831E-03	.1485302E-02	-.4936692E-03	.2603943E-03	152.1898	.5581346E-03
-1.20	1.00	-.3389854E-03	.1431245E-02	-.4660157E-03	.3066903E-03	146.6506	.5578795E-03
-1.20	1.20	-.3740124E-03	.1383424E-02	-.4379861E-03	.3452736E-03	141.7505	.5577146E-03
-1.20	1.40	-.4102981E-03	.1341379E-02	-.4107496E-03	.3771463E-03	137.4422	.5576329E-03
-1.20	1.60	-.4469240E-03	.1304494E-02	-.3849843E-03	.4033898E-03	133.6626	.5576166E-03
-1.20	1.80	-.4832605E-03	.1272124E-02	-.3610197E-03	.4250107E-03	130.3458	.5576462E-03
-1.20	2.00	-.5188952E-03	.1243658E-02	-.3389611E-03	.4428776E-03	127.4290	.5577053E-03
-1.20	2.20	-.5535744E-03	.1218545E-02	-.3187803E-03	.4577111E-03	124.8559	.5577814E-03
-1.20	2.40	-.5871523E-03	.1196306E-02	-.3003757E-03	.4700944E-03	122.5773	.5578657E-03
-1.20	2.60	-.6195595E-03	.1176533E-02	-.2836122E-03	.4804947E-03	120.5512	.5579526E-03
-1.00	.00	-.1569023E-03	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-1.00	.20	-.1635732E-03	.1671702E-02	-.5525521E-03	.8465658E-04	171.2894	.5589996E-03
-1.00	.40	-.1825944E-03	.1590729E-02	-.5341249E-03	.1633733E-03	162.9926	.5585519E-03
-1.00	.60	-.2114639E-03	.1516715E-02	-.5074132E-03	.2322198E-03	155.4086	.5580271E-03
-1.00	.80	-.2471579E-03	.1451046E-02	-.4763298E-03	.2898469E-03	148.6795	.5575852E-03
-1.00	1.00	-.2869528E-03	.1393849E-02	-.4440111E-03	.3367960E-03	142.8186	.5572946E-03
-1.00	1.20	-.3286721E-03	.1344510E-02	-.4124984E-03	.3745202E-03	137.7627	.5571537E-03
-1.00	1.40	-.3709034E-03	.1302089E-02	-.3829075E-03	.4046895E-03	133.4158	.5571281E-03
-1.00	1.60	-.4126725E-03	.1265590E-02	-.3557280E-03	.4288440E-03	129.6759	.5571800E-03
-1.00	1.80	-.4534007E-03	.1234086E-02	-.3310728E-03	.4482737E-03	126.4478	.5572778E-03
-1.00	2.00	-.4927644E-03	.1206767E-02	-.3088536E-03	.4640075E-03	123.6486	.5573989E-03
-1.00	2.20	-.5306026E-03	.1182952E-02	-.2888853E-03	.4768469E-03	121.2085	.5575281E-03
-1.00	2.40	-.5668616E-03	.1162074E-02	-.2709478E-03	.4874102E-03	119.0694	.5576571E-03
-1.00	2.60	-.6015480E-03	.1143668E-02	-.2548175E-03	.4961723E-03	117.1835	.5577803E-03
-.80	.00	-.6358029E-04	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-.80	.20	-.7304152E-04	.1656072E-02	-.5498088E-03	.1000370E-03	169.6879	.5588355E-03
-.80	.40	-.9942213E-04	.1562160E-02	-.5246047E-03	.1902626E-03	160.0654	.5580410E-03
-.80	.60	-.1380294E-03	.1479144E-02	-.4899781E-03	.2653843E-03	151.5589	.5572319E-03
-.80	.80	-.1838658E-03	.1408193E-02	-.4519988E-03	.3249343E-03	144.2883	.5566732E-03
-.80	1.00	-.2330260E-03	.1348550E-02	-.4146346E-03	.3710347E-03	138.1763	.5564068E-03
-.80	1.20	-.2829274E-03	.1298671E-02	-.3799018E-03	.4064697E-03	133.0650	.5563658E-03
-.80	1.40	-.3320326E-03	.1256892E-02	-.3485605E-03	.4337730E-03	128.7838	.5564650E-03

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-.80	1.60	-.3795025E-03	.1221712E-02	-.3206991E-03	.4549706E-03	125.1792	.5500302E-03
-.80	1.80	-.4249334E-03	.1191883E-02	-.2960924E-03	.4715950E-03	122.1228	.5568415E-03
-.80	2.00	-.4681749E-03	.1166393E-02	-.2743979E-03	.4847783E-03	119.5111	.5570494E-03
-.80	2.20	-.5092218E-03	.1144437E-02	-.2552511E-03	.4953521E-03	117.2617	.5572492E-03
-.80	2.40	-.5481485E-03	.1125383E-02	-.2383070E-03	.5039265E-03	115.3095	.5574336E-03
-.80	2.60	-.5850666E-03	.1108725E-02	-.2232597E-03	.5109536E-03	113.6028	.5576008E-03
-.60	.00	.4943086E-04	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-.60	.20	.3488733E-04	.1633203E-02	-.5448624E-03	.1223418E-03	167.3449	.5584287E-03
-.60	.40	-.4014028E-05	.1522153E-02	-.5086358E-03	.2268135E-03	155.9667	.5569153E-03
-.60	.60	-.5758309E-04	.1429193E-02	-.4630815E-03	.3071930E-03	146.4810	.5557085E-03
-.60	.80	-.1174823E-03	.1353915E-02	-.4172260E-03	.3662047E-03	138.7262	.5551428E-03
-.60	1.00	-.1785525E-03	.1293477E-02	-.3752327E-03	.4090355E-03	132.5320	.5550762E-03
-.60	1.20	-.2380931E-03	.1244765E-02	-.3383474E-03	.4403042E-03	127.5401	.5552897E-03
-.60	1.40	-.2948653E-03	.1205136E-02	-.3065034E-03	.4634380E-03	123.4794	.5556250E-03
-.60	1.60	-.3484131E-03	.1172527E-02	-.2791570E-03	.4808309E-03	120.1382	.5559919E-03
-.60	1.80	-.3986782E-03	.1145376E-02	-.2556555E-03	.4941269E-03	117.3565	.5563463E-03
-.60	2.00	-.4457922E-03	.1122510E-02	-.2353810E-03	.5044565E-03	115.0139	.5566692E-03
-.60	2.20	-.4899681E-03	.1103045E-02	-.2177975E-03	.5126044E-03	113.0199	.5569551E-03
-.60	2.40	-.5314462E-03	.1086313E-02	-.2024574E-03	.5191218E-03	111.3058	.5572040E-03
-.60	2.60	-.5704642E-03	.1071800E-02	-.1889931E-03	.5244035E-03	109.8190	.5574203E-03
-.40	.00	.1935085E-03	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-.40	.20	.1680070E-03	.1596410E-02	-.5344392E-03	.1575310E-03	163.5766	.5571726E-03
-.40	.40	.1056591E-03	.1463007E-02	-.4794693E-03	.2778308E-03	149.9097	.5541486E-03
-.40	.60	.2860365E-04	.1361219E-02	-.4201394E-03	.3591229E-03	139.4771	.5527081E-03
-.40	.80	-.5033557E-04	.1284792E-02	-.3672021E-03	.4129799E-03	131.6420	.5526207E-03
-.40	1.00	-.1258405E-03	.1226768E-02	-.3227484E-03	.4492481E-03	125.6942	.5531639E-03
-.40	1.20	-.1961498E-03	.1181876E-02	-.2860543E-03	.4743147E-03	121.0938	.5538767E-03
-.40	1.40	-.2609841E-03	.1146445E-02	-.2557824E-03	.4921176E-03	117.4635	.5546208E-03
-.40	1.60	-.3206353E-03	.1117948E-02	-.2306548E-03	.5050933E-03	114.5442	.5552664E-03
-.40	1.80	-.3755866E-03	.1094632E-02	-.2096128E-03	.5147764E-03	112.1558	.5558168E-03
-.40	2.00	-.4263511E-03	.1075260E-02	-.1918224E-03	.5221581E-03	110.1716	.5562778E-03
-.40	2.20	-.4734118E-03	.1058946E-02	-.1766371E-03	.5278937E-03	108.5006	.5566617E-03
-.40	2.40	-.5172011E-03	.1045043E-02	-.1635574E-03	.5324264E-03	107.0766	.5569819E-03
-.40	2.60	-.5580927E-03	.1033068E-02	-.1521953E-03	.5360623E-03	105.8500	.5572487E-03
-.20	.00	.3959625E-03	.0000000	-.5591791E-03	.0000000	.0000000	.5591791E-03
-.20	.20	.3383961E-03	.1527555E-02	-.5061785E-03	.2196425E-03	156.5429	.5517784E-03
-.20	.40	.2279445E-03	.1370796E-02	-.4217892E-03	.3479507E-03	140.4794	.5467867E-03
-.20	.60	.1154610E-03	.1267989E-02	-.3510518E-03	.4194712E-03	129.9257	.5469858E-03
-.20	.80	.1284489E-04	.1197594E-02	-.2964840E-03	.4617821E-03	122.7023	.5487672E-03
-.20	1.00	-.7854112E-04	.1147195E-02	-.2545649E-03	.4882801E-03	117.5353	.5506547E-03
-.20	1.20	-.1597650E-03	.1109716E-02	-.2219380E-03	.5056981E-03	113.6955	.5522564E-03
-.20	1.40	-.2323119E-03	.1080947E-02	-.1961025E-03	.5176277E-03	110.7491	.5535292E-03
-.20	1.60	-.2975606E-03	.1058273E-02	-.1752855E-03	.5260902E-03	108.4273	.5545230E-03
-.20	1.80	-.3566749E-03	.1039998E-02	-.1582360E-03	.5322769E-03	106.5562	.5552992E-03
-.20	2.00	-.4106043E-03	.1024990E-02	-.1440636E-03	.5369168E-03	105.0197	.5559081E-03
-.20	2.20	-.4601192E-03	.1012464E-02	-.1321254E-03	.5404772E-03	103.7372	.5563926E-03
-.20	2.40	-.5058432E-03	.1001865E-02	-.1219496E-03	.5432623E-03	102.6518	.5567814E-03
-.20	2.60	-.5482864E-03	.9927873E-03	-.1131841E-03	.5454791E-03	101.7223	.5570978E-03

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.60	1.20	-.1240062E-03	.7645468E-03	.1113633E-03	.5578674E-03	78.27991	.5973197E-03
.60	1.40	-.2046434E-03	.7795319E-03	.9723232E-04	.5431059E-03	79.84982	.5517409E-03
.60	1.60	-.2755963E-03	.7912330E-03	.8602622E-04	.5466545E-03	81.05673	.5533819E-03
.60	1.80	-.3388603E-03	.8005048E-03	.7706536E-04	.5491599E-03	82.01166	.5545409E-03
.60	2.00	-.3958910E-03	.8080220E-03	.6975284E-04	.5509900E-03	82.78494	.5553877E-03
.60	2.20	-.4477773E-03	.8142330E-03	.6368151E-04	.5523660E-03	83.42348	.5560247E-03
.60	2.40	-.4953523E-03	.8194479E-03	.5856535E-04	.5534242E-03	83.95918	.5565144E-03
.60	2.60	-.5392644E-03	.8238861E-03	.5419874E-04	.5542554E-03	84.41495	.5568990E-03
.80	.00	.5596417E-03	.0000000	.5290839E-03	.0000000	.0000000	.5290839E-03
.80	.20	.4155652E-03	.3049963E-03	.4496560E-03	.2595729E-03	29.99654	.5192000E-03
.80	.40	.2732552E-03	.4473524E-03	.3719430E-03	.3766604E-03	45.36102	.5295530E-03
.80	.60	.1459749E-03	.5401331E-03	.3074678E-03	.4412720E-03	55.13213	.5378264E-03
.80	.80	.3473692E-04	.6032737E-03	.2577447E-03	.4788295E-03	61.70724	.5437920E-03
.80	1.00	-.6221232E-04	.6480687E-03	.2198068E-03	.5017929E-03	66.34451	.5478240E-03
.80	1.20	-.1472190E-03	.6810727E-03	.1905635E-03	.5165364E-03	69.74966	.5505672E-03
.80	1.40	-.2224311E-03	.7061984E-03	.1676318E-03	.5264303E-03	72.33688	.5524757E-03
.80	1.60	-.2896124E-03	.7258665E-03	.1493141E-03	.5333317E-03	74.35960	.5538387E-03
.80	1.80	-.3501638E-03	.7416306E-03	.1344212E-03	.5383089E-03	75.97934	.5548382E-03
.80	2.00	-.4051854E-03	.7545182E-03	.1221164E-03	.5420027E-03	77.30292	.5555893E-03
.80	2.20	-.4555460E-03	.7652361E-03	.1118031E-03	.5448111E-03	78.40308	.5561647E-03
.80	2.40	-.5019375E-03	.7742788E-03	.1030484E-03	.5469935E-03	79.33105	.5566158E-03
.80	2.60	-.5449145E-03	.7820055E-03	.9553280E-04	.5487194E-03	80.12369	.5569735E-03
1.00	.00	.2912625E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.00	.20	.2414555E-03	.1954537E-03	.5167541E-03	.1867902E-03	19.87332	.5494773E-03
1.00	.40	.1561185E-03	.3350289E-03	.4516793E-03	.3066570E-03	34.17361	.5459420E-03
1.00	.60	.6457599E-04	.4354038E-03	.3898826E-03	.3832225E-03	44.50642	.5466880E-03
1.00	.80	-.2365875E-04	.5087673E-03	.3372983E-03	.4326899E-03	52.06221	.5486261E-03
1.00	1.00	-.1054391E-03	.5635570E-03	.2941920E-03	.4653800E-03	57.70078	.5505702E-03
1.00	1.20	-.1801586E-03	.6054391E-03	.2591824E-03	.4875955E-03	62.00702	.5521798E-03
1.00	1.40	-.2481875E-03	.6381834E-03	.2306591E-03	.5031377E-03	65.37129	.5534899E-03
1.00	1.60	-.3102098E-03	.6643222E-03	.2072207E-03	.5143194E-03	68.05534	.5544950E-03
1.00	1.80	-.3669583E-03	.6855787E-03	.1877548E-03	.5225728E-03	70.23717	.5552785E-03
1.00	2.00	-.4191110E-03	.7031518E-03	.1714086E-03	.5288071E-03	72.04028	.5558936E-03
1.00	2.20	-.4672620E-03	.7178909E-03	.1575339E-03	.5336138E-03	73.55228	.5563817E-03
1.00	2.40	-.5119198E-03	.7304111E-03	.1456382E-03	.5373880E-03	74.83641	.5567733E-03
1.00	2.60	-.5535141E-03	.7411651E-03	.1353448E-03	.5404002E-03	75.93929	.5570911E-03
1.20	.00	.1138552E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.20	.20	.9320673E-04	.1409970E-03	.5392123E-03	.1387751E-03	14.43279	.5567840E-03
1.20	.40	.4284142E-04	.2611431E-03	.4945835E-03	.2489542E-03	26.71890	.5537067E-03
1.20	.60	-.2104660E-04	.3570537E-03	.4438360E-03	.3289250E-03	36.54199	.5524328E-03
1.20	.80	-.8888052E-04	.4323763E-03	.3956165E-03	.3856171E-03	44.26668	.5524608E-03
1.20	1.00	-.1558670E-03	.4916466E-03	.3529205E-03	.4258265E-03	50.34840	.5530652E-03
1.20	1.20	-.2198324E-03	.5387410E-03	.3162290E-03	.4546742E-03	55.18111	.5538315E-03
1.20	1.40	-.2799532E-03	.5766454E-03	.2850441E-03	.4757147E-03	59.07031	.5545761E-03
1.20	1.60	-.3360701E-03	.6075741E-03	.2585826E-03	.4913455E-03	62.24329	.5552343E-03
1.20	1.80	-.3883338E-03	.6331550E-03	.2360562E-03	.5031738E-03	64.86707	.5557935E-03
1.20	2.00	-.4370238E-03	.6545817E-03	.2167718E-03	.5122852E-03	67.06447	.5562608E-03
1.20	2.20	-.4824586E-03	.6727378E-03	.2001524E-03	.5194193E-03	68.92638	.5566485E-03

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1.20	2.40	-.3249342E-03	.6662992E-03	.1857271E-03	.5250925E-03	70.52092	.5597716E-03
1.20	2.60	-.5648041E-03	.7017378E-03	.1731247E-03	.5296653E-03	71.89964	.5572410E-03
1.40	.00	-.1392909E-04	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.40	.20	-.2591095E-04	.1110414E-03	.5473751E-03	.1101255E-03	11.37539	.5583433E-03
1.40	.40	-.5820677E-04	.2123350E-03	.5171241E-03	.2062734E-03	21.74635	.5567460E-03
1.40	.60	-.1034920E-03	.2993406E-03	.4779103E-03	.2832571E-03	30.65520	.5555472E-03
1.40	.80	-.1553598E-03	.3718992E-03	.4368341E-03	.3423810E-03	38.08856	.5550215E-03
1.40	1.00	-.2095254E-03	.4317565E-03	.3977199E-03	.3870823E-03	44.22343	.5549890E-03
1.40	1.20	-.2634535E-03	.4811042E-03	.3621923E-03	.4208270E-03	49.28246	.5552284E-03
1.40	1.40	-.3157693E-03	.5219842E-03	.3306761E-03	.4464563E-03	53.47380	.5555807E-03
1.40	1.60	-.3658023E-03	.5561055E-03	.3030235E-03	.4661195E-03	56.97215	.5559591E-03
1.40	1.80	-.4132884E-03	.5848336E-03	.2788531E-03	.4813885E-03	59.91763	.5563218E-03
1.40	2.00	-.4581907E-03	.6092426E-03	.2577214E-03	.4933958E-03	62.42000	.5566503E-03
1.40	2.20	-.5005908E-03	.6301664E-03	.2391990E-03	.5029580E-03	64.56894	.5569407E-03
1.40	2.40	-.5406293E-03	.6482534E-03	.2229016E-03	.5106654E-03	66.41904	.5571931E-03
1.40	2.60	-.5784682E-03	.6640137E-03	.2084978E-03	.5169485E-03	68.03458	.5574110E-03
1.60	.00	-.1161671E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.60	.20	-.1241453E-03	.9195923E-04	.5512710E-03	.9147904E-04	9.421924	.5588096E-03
1.60	.40	-.1465407E-03	.1785533E-03	.5297787E-03	.1751258E-03	18.29202	.5579735E-03
1.60	.60	-.1797431E-03	.2563524E-03	.4996457E-03	.2465108E-03	26.26041	.5571474E-03
1.60	.80	-.2198342E-03	.3241748E-03	.4656971E-03	.3048340E-03	33.20778	.5565947E-03
1.60	1.00	-.2636097E-03	.3823396E-03	.4313362E-03	.3513771E-03	39.16710	.5563423E-03
1.60	1.20	-.3088007E-03	.4318762E-03	.3985346E-03	.3881457E-03	44.24339	.5563153E-03
1.60	1.40	-.3539345E-03	.4740236E-03	.3682408E-03	.4171438E-03	48.56299	.5564261E-03
1.60	1.60	-.3981171E-03	.5099778E-03	.3407795E-03	.4400930E-03	52.24811	.5566080E-03
1.60	1.80	-.4408460E-03	.5407939E-03	.3161321E-03	.4583742E-03	55.40668	.5568180E-03
1.60	2.00	-.4818686E-03	.5673598E-03	.2941124E-03	.4730560E-03	58.12959	.5570315E-03
1.60	2.20	-.5210887E-03	.5904057E-03	.2744659E-03	.4849529E-03	60.49170	.5572350E-03
1.60	2.40	-.5585034E-03	.6105250E-03	.2569237E-03	.4946815E-03	62.55386	.5574222E-03
1.60	2.60	-.5941624E-03	.6282018E-03	.2412296E-03	.5027093E-03	64.36551	.5575914E-03
1.80	.00	-.2018574E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.80	.20	-.2075977E-03	.7862796E-04	.5534729E-03	.7834079E-04	8.056361	.5589896E-03
1.80	.40	-.2240475E-03	.1539698E-03	.5374860E-03	.1518416E-03	15.77516	.5585223E-03
1.80	.60	-.2492473E-03	.2235883E-03	.5139788E-03	.2171875E-03	22.90701	.5579826E-03
1.80	.80	-.2807879E-03	.2862168E-03	.4861027E-03	.2730424E-03	29.32278	.5575372E-03
1.80	1.00	-.3164127E-03	.3415786E-03	.4565029E-03	.3195822E-03	34.99455	.5572501E-03
1.80	1.20	-.3543007E-03	.3900270E-03	.4270335E-03	.3577983E-03	39.95860	.5571151E-03
1.80	1.40	-.3931131E-03	.4322301E-03	.3988240E-03	.3889673E-03	44.28317	.5570962E-03
1.80	1.60	-.4319255E-03	.4689607E-03	.3724678E-03	.4143531E-03	48.04716	.5571542E-03
1.80	1.80	-.4701337E-03	.5009780E-03	.3482057E-03	.4350725E-03	51.32831	.5572569E-03
1.80	2.00	-.5073645E-03	.5289742E-03	.3260651E-03	.4520577E-03	54.19740	.5573819E-03
1.80	2.20	-.5434018E-03	.5535518E-03	.3059560E-03	.4660615E-03	56.71623	.5575144E-03
1.80	2.40	-.5781378E-03	.5752260E-03	.2877298E-03	.4776826E-03	58.93753	.5576459E-03
1.80	2.60	-.6115336E-03	.5944308E-03	.2712158E-03	.4873918E-03	60.90561	.5577712E-03
2.00	.00	-.2757856E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.00	.20	-.2801311E-03	.6874339E-04	.5548520E-03	.6855642E-04	7.043655	.5590713E-03
2.00	.40	-.2927352E-03	.1353198E-03	.5425105E-03	.1339054E-03	13.86492	.5587919E-03
2.00	.60	-.3124468E-03	.1979833E-03	.5238047E-03	.1936042E-03	20.28488	.5584387E-03

BUPT

1.20	2.60	-.5648041E-03	.7017378E-03	.1731247E-03	.5296653E-03	71.89964	.5572410E-03
1.40	.00	-.1392909E-04	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.40	.20	-.2591095E-04	.1110414E-03	.5473751E-03	.1101255E-03	11.37539	.5585433E-03
1.40	.40	-.5820677E-04	.2123350E-03	.5171241E-03	.2062734E-03	21.74635	.5567860E-03
1.40	.60	-.1034920E-03	.2993406E-03	.4779103E-03	.2832571E-03	30.65520	.5555472E-03
1.40	.80	-.1553598E-03	.3718992E-03	.4368341E-03	.3423810E-03	38.08856	.5550215E-03
1.40	1.00	-.2095254E-03	.4317565E-03	.3977199E-03	.3870823E-03	44.22343	.5549898E-03
1.40	1.20	-.2634535E-03	.4811042E-03	.3621923E-03	.4208270E-03	49.28246	.5552284E-03
1.40	1.40	-.3157693E-03	.5219842E-03	.3306761E-03	.4464563E-03	53.47380	.5555807E-03
1.40	1.60	-.3658023E-03	.5561055E-03	.3030235E-03	.4661195E-03	56.97215	.5559591E-03
1.40	1.80	-.4132884E-03	.5848336E-03	.2788531E-03	.4813885E-03	59.91763	.5563218E-03
1.40	2.00	-.4581907E-03	.6092426E-03	.2577214E-03	.4933958E-03	62.42000	.5566503E-03
1.40	2.20	-.5005908E-03	.6301664E-03	.2391990E-03	.5029580E-03	64.56494	.5569407E-03
1.40	2.40	-.5406293E-03	.6482534E-03	.2229016E-03	.5106654E-03	66.41904	.5571931E-03
1.40	2.60	-.5784682E-03	.6640137E-03	.2084978E-03	.5169485E-03	68.03458	.5574110E-03
1.60	.00	-.1161671E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.60	.20	-.1241453E-03	.9195923E-04	.5512710E-03	.9147994E-04	9.421924	.5588096E-03
1.60	.40	-.1465407E-03	.1785533E-03	.5297787E-03	.1751258E-03	18.29202	.5579735E-03
1.60	.60	-.1797431E-03	.2563524E-03	.4996457E-03	.2465108E-03	26.26041	.5571474E-03
1.60	.80	-.2198342E-03	.3241748E-03	.4656971E-03	.3048340E-03	33.20778	.5565947E-03
1.60	1.00	-.2636097E-03	.3823396E-03	.4313362E-03	.3513771E-03	39.16710	.5563423E-03
1.60	1.20	-.3088007E-03	.4318762E-03	.3985346E-03	.3881457E-03	44.24339	.5563153E-03
1.60	1.40	-.3539345E-03	.4740236E-03	.3682408E-03	.4171438E-03	48.56299	.5564261E-03
1.60	1.60	-.3981171E-03	.5099778E-03	.3407795E-03	.4400930E-03	52.24811	.5566080E-03
1.60	1.80	-.4408460E-03	.5407939E-03	.3161321E-03	.4583742E-03	55.40668	.5568180E-03
1.60	2.00	-.4818686E-03	.5673598E-03	.2941124E-03	.4730560E-03	58.12959	.5570315E-03
1.60	2.20	-.5210887E-03	.5904057E-03	.2744659E-03	.4849529E-03	60.49170	.5572350E-03
1.60	2.40	-.5585934E-03	.6105250E-03	.2569237E-03	.4946815E-03	62.55386	.5574222E-03
1.60	2.60	-.5941624E-03	.6282018E-03	.2412296E-03	.5027093E-03	64.36551	.5575914E-03
1.80	.00	-.2018574E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.80	.20	-.2075977E-03	.7862796E-04	.5534729E-03	.7834079E-04	8.056361	.5589896E-03
1.80	.40	-.2240475E-03	.1539698E-03	.5374860E-03	.1518416E-03	15.77516	.5585223E-03
1.80	.60	-.2492473E-03	.2235883E-03	.5139788E-03	.2171875E-03	22.90701	.5579826E-03
1.80	.80	-.2807879E-03	.2862168E-03	.4861027E-03	.2730424E-03	29.32278	.5575372E-03
1.80	1.00	-.3164127E-03	.3415786E-03	.4565029E-03	.3195822E-03	34.99455	.5572501E-03
1.80	1.20	-.3543007E-03	.3900270E-03	.4270335E-03	.3577983E-03	39.95860	.5571151E-03
1.80	1.40	-.3931131E-03	.4322301E-03	.3988240E-03	.3889673E-03	44.28317	.5570962E-03
1.80	1.60	-.4319255E-03	.4689607E-03	.3724678E-03	.4143531E-03	48.04716	.5571542E-03
1.80	1.80	-.4701337E-03	.5009780E-03	.3482057E-03	.4350725E-03	51.32831	.5572569E-03
1.80	2.00	-.5073645E-03	.5289742E-03	.3260651E-03	.4520577E-03	54.19740	.5573819E-03
1.80	2.20	-.5434018E-03	.5535518E-03	.3059560E-03	.4660615E-03	56.71623	.5575144E-03
1.80	2.40	-.5781378E-03	.5752260E-03	.2877298E-03	.4776826E-03	58.93753	.5576459E-03
1.80	2.60	-.6115336E-03	.5944308E-03	.2712158E-03	.4873918E-03	60.90561	.5577712E-03
2.00	.00	-.2757856E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.00	.20	-.2801311E-03	.6874339E-04	.5548520E-03	.6855642E-04	7.043655	.5[illegible]3E-03
2.00	.40	-.2927352E-03	.1553198E-03	.5425105E-03	.1539054E-03	13.86492	[illegible]E-03
2.00	.60	-.3124468E-03	.1979833E-03	.5238047E-03	.1936042E-03	20.28080	[illegible]

BUPT

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2.00	1.00	-.3670349E-03	.3077798E-03	.4754739E-03	.2917545E-03	31.53360	.5578494E-03
2.00	1.20	-.3989460E-03	.3544374E-03	.4493748E-03	.3302675E-03	36.31398	.5576864E-03
2.00	1.40	-.4323442E-03	.3959057E-03	.4236104E-03	.3626030E-03	40.56293	.5576080E-03
2.00	1.60	-.4663756E-03	.4326440E-03	.3988806E-03	.3896237E-03	44.32739	.5575952E-03
2.00	1.80	-.5004262E-03	.4651689E-03	.3755770E-03	.4121785E-03	47.66020	.5576282E-03
2.00	2.00	-.5340704E-03	.4939914E-03	.3538793E-03	.4310312E-03	50.61377	.5576902E-03
2.00	2.20	-.5670267E-03	.5195879E-03	.3338298E-03	.4468379E-03	53.23680	.5577691E-03
2.00	2.40	-.5991186E-03	.5423857E-03	.3153863E-03	.4601458E-03	55.57304	.5578555E-03
2.00	2.60	-.6302430E-03	.5627584E-03	.2984619E-03	.4714041E-03	57.66066	.5579437E-03
2.20	.00	-.3408690E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.20	.20	-.3442806E-03	.6110237E-04	.5557786E-03	.6097337E-04	6.260766	.5591132E-03
2.20	.40	-.3542523E-03	.1206970E-03	.5459674E-03	.1197079E-03	12.36688	.5589367E-03
2.20	.60	-.3700650E-03	.1775044E-03	.5307882E-03	.1743828E-03	18.18718	.5586997E-03
2.20	.80	-.3907124E-03	.2306159E-03	.5116360E-03	.2238339E-03	23.62874	.5584559E-03
2.20	1.00	-.4150914E-03	.2795234E-03	.4899462E-03	.2675659E-03	28.63953	.5582462E-03
2.20	1.20	-.4421512E-03	.3240621E-03	.4669749E-03	.3056128E-03	33.20284	.5580902E-03
2.20	1.40	-.4709815E-03	.3643192E-03	.4437044E-03	.3383495E-03	37.32755	.5579910E-03
2.20	1.60	-.5008385E-03	.4005402E-03	.4208363E-03	.3663285E-03	41.03883	.5579423E-03
2.20	1.80	-.5311484E-03	.4330548E-03	.3988291E-03	.3901696E-03	44.37053	.5579337E-03
2.20	2.00	-.5614818E-03	.4622261E-03	.3779547E-03	.4104420E-03	47.35962	.5579537E-03
2.20	2.20	-.5915293E-03	.4884149E-03	.3583489E-03	.4277180E-03	50.04317	.5579933E-03
2.20	2.40	-.6210760E-03	.5119627E-03	.3400552E-03	.4424672E-03	52.45615	.5580455E-03
2.20	2.60	-.6499763E-03	.5331801E-03	.3230579E-03	.4550973E-03	54.63034	.5581039E-03
2.40	.00	-.3990377E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.40	.20	-.4017907E-03	.5500992E-04	.5564333E-03	.5491691E-04	5.636524	.5591367E-03
2.40	.40	-.4098802E-03	.1089267E-03	.5484479E-03	.1082073E-03	11.16096	.5590206E-03
2.40	.60	-.4228340E-03	.1607903E-03	.5359121E-03	.1584890E-03	16.47490	.5588564E-03
2.40	.80	-.4399663E-03	.2098654E-03	.5197930E-03	.2047838E-03	21.50304	.5586781E-03
2.40	1.00	-.4604904E-03	.2556774E-03	.5011430E-03	.2465583E-03	26.19681	.5585116E-03
2.40	1.20	-.4836167E-03	.2979946E-03	.4809510E-03	.2836701E-03	30.53256	.5583749E-03
2.40	1.40	-.5086195E-03	.3367823E-03	.4600522E-03	.3162646E-03	34.50673	.5582753E-03
2.40	1.60	-.5348739E-03	.3721467E-03	.4390948E-03	.3446680E-03	38.13019	.5582117E-03
2.40	1.80	-.5618674E-03	.4042841E-03	.4185480E-03	.3692999E-03	41.42311	.5581798E-03
2.40	2.00	-.5891945E-03	.4334396E-03	.3987281E-03	.3906072E-03	44.41054	.5581737E-03
2.40	2.20	-.6165451E-03	.4598780E-03	.3798294E-03	.4090257E-03	47.11960	.5581960E-03
2.40	2.40	-.6436871E-03	.4838633E-03	.3619574E-03	.4249576E-03	49.57730	.5582133E-03
2.40	2.60	-.6704528E-03	.5056479E-03	.3451526E-03	.4387614E-03	51.80954	.5582490E-03
2.60	.00	-.4516419E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.60	.20	-.4539120E-03	.5003389E-04	.5569134E-03	.4996452E-04	5.126671	.5591502E-03
2.60	.40	-.4606089E-03	.9924927E-04	.5502878E-03	.9870922E-04	10.16942	.5590708E-03
2.60	.60	-.4714080E-03	.1469091E-03	.5397755E-03	.1451649E-03	15.05272	.5589547E-03
2.60	.80	-.4858293E-03	.1924194E-03	.5260634E-03	.1885208E-03	19.71571	.5588226E-03
2.60	1.00	-.5033000E-03	.2355592E-03	.5099326E-03	.2282673E-03	24.11530	.5586925E-03
2.60	1.20	-.5232228E-03	.2754799E-03	.4921565E-03	.2641799E-03	28.22603	.5585777E-03
2.60	1.40	-.5450242E-03	.3126829E-03	.4734269E-03	.2962654E-03	32.03789	.5584855E-03
2.60	1.60	-.5681878E-03	.3469877E-03	.4543187E-03	.3246942E-03	35.55278	.5584189E-03
2.60	1.80	-.5922676E-03	.3784979E-03	.4352776E-03	.3497393E-03	38.78137	.5583763E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2.00	1.00	-.3670349E-03	.3077798E-03	.4754739E-03	.2917545E-03	31.53360	.5578494E-03
2.00	1.20	-.3989460E-03	.3584374E-03	.4493748E-03	.3302675E-03	36.31398	.5576864E-03
2.00	1.40	-.4323442E-03	.3959057E-03	.4236104E-03	.3626030E-03	40.56293	.5576080E-03
2.00	1.60	-.4663756E-03	.4326440E-03	.3988806E-03	.3896237E-03	44.32739	.5575952E-03
2.00	1.80	-.5004262E-03	.4651689E-03	.3755770E-03	.4121785E-03	47.66020	.5576282E-03
2.00	2.00	-.5340704E-03	.4939914E-03	.3538793E-03	.4310312E-03	50.61377	.5576702E-03
2.00	2.20	-.5670267E-03	.5195879E-03	.3338298E-03	.4468379E-03	53.23680	.5577691E-03
2.00	2.40	-.5991186E-03	.5423857E-03	.3153863E-03	.4601458E-03	55.57304	.5578555E-03
2.00	2.60	-.6302430E-03	.5627584E-03	.2984619E-03	.4714041E-03	57.66066	.5579437E-03
2.20	.00	-.3408690E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.20	.20	-.3442806E-03	.0110237E-04	.5557786E-03	.6097337E-04	6.260766	.5591132E-03
2.20	.40	-.3542523E-03	.1206970E-03	.5459674E-03	.1197079E-03	12.36688	.5589367E-03
2.20	.60	-.3700650E-03	.1775044E-03	.5307882E-03	.1743828E-03	18.18718	.5586997E-03
2.20	.80	-.3907124E-03	.2306159E-03	.5116360E-03	.2238339E-03	23.62874	.5584559E-03
2.20	1.00	-.4150914E-03	.2795234E-03	.4899462E-03	.2675659E-03	28.63953	.5582462E-03
2.20	1.20	-.4421512E-03	.3240621E-03	.4669749E-03	.3056128E-03	33.20284	.5580902E-03
2.20	1.40	-.4709815E-03	.3643192E-03	.4437044E-03	.3383495E-03	37.32755	.5579910E-03
2.20	1.60	-.5008385E-03	.4005802E-03	.4208363E-03	.3663285E-03	41.03883	.5579423E-03
2.20	1.80	-.5311484E-03	.4330548E-03	.3988291E-03	.3901606E-03	44.37053	.5579337E-03
2.20	2.00	-.5614818E-03	.4622261E-03	.3779547E-03	.4104420E-03	47.35962	.5579537E-03
2.20	2.20	-.5915293E-03	.4884149E-03	.3583489E-03	.4277180E-03	50.04317	.5579933E-03
2.20	2.40	-.6210760E-03	.5119627E-03	.3400552E-03	.4424672E-03	52.45615	.5580455E-03
2.20	2.60	-.6499763E-03	.5331801E-03	.3230579E-03	.4550973E-03	54.63034	.5581039E-03
2.40	.00	-.3990377E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.40	.20	-.4017907E-03	.5500992E-04	.5564333E-03	.5491691E-04	5.636524	.5591367E-03
2.40	.40	-.4098802E-03	.1089267E-03	.5484479E-03	.1082073E-03	11.16096	.5590206E-03
2.40	.60	-.4228340E-03	.1607903E-03	.5359121E-03	.1584890E-03	16.47490	.5588564E-03
2.40	.80	-.4399663E-03	.2098654E-03	.5197930E-03	.2047838E-03	21.50304	.5586781E-03
2.40	1.00	-.4604904E-03	.2556774E-03	.5011430E-03	.2465583E-03	26.19681	.5585116E-03
2.40	1.20	-.4836167E-03	.2979946E-03	.4809510E-03	.2836701E-03	30.53256	.5583749E-03
2.40	1.40	-.5086195E-03	.3367823E-03	.4600522E-03	.3162646E-03	34.50673	.5582753E-03
2.40	1.60	-.5348739E-03	.3721467E-03	.4390948E-03	.3446680E-03	38.13019	.5582117E-03
2.40	1.80	-.5618674E-03	.4042841E-03	.4185480E-03	.3692999E-03	41.42311	.5581798E-03
2.40	2.00	-.5891945E-03	.4334396E-03	.3987281E-03	.3906072E-03	44.41054	.5581737E-03
2.40	2.20	-.6165451E-03	.4598780E-03	.3798294E-03	.4090257E-03	47.11960	.5581868E-03
2.40	2.40	-.6436871E-03	.4838633E-03	.3619574E-03	.4249576E-03	49.57730	.5582133E-03
2.40	2.60	-.6704528E-03	.5056479E-03	.3451526E-03	.4387614E-03	51.80954	.5582490E-03
2.60	.00	-.4516419E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.60	.20	-.4539120E-03	.5003389E-04	.5569134E-03	.4996452E-04	5.126671	.5591502E-03
2.60	.40	-.4606089E-03	.9924927E-04	.5502878E-03	.9870922E-04	10.16942	.5590708E-03
2.60	.60	-.4714080E-03	.1469091E-03	.5397755E-03	.1451649E-03	15.05272	.5589547E-03
2.60	.80	-.4858293E-03	.1924194E-03	.5260634E-03	.1885208E-03	19.71571	.5588226E-03
2.60	1.00	-.5033000E-03	.2353592E-03	.5099326E-03	.2282673E-03	24.11530	.5586925E-03
2.60	1.20	-.5232228E-03	.2754799E-03	.4921565E-03	.2641799E-03	28.22603	.5585777E-03
2.60	1.40	-.5450242E-03	.3126829E-03	.4734269E-03	.2962654E-03	32.03789	.5584855E-03
2.60	1.60	-.5681878E-03	.3469877E-03	.4543187E-03	.3246942E-03	35.55278	.5584189E-03
2.60	1.80	-.5922676E-03	.3784979E-03	.4352776E-03	.3497395E-03	38.78137	.5583763E-03

BUPT

1.20	[illegible]	-.3249342E-03	.6602902E-03	.1857291E-03	.5250925E-03	70.52092	.5597710E-03
1.20	2.60	-.5648041E-03	.7017378E-03	.1731247E-03	.5296653E-03	71.89964	.5572410E-03
1.40	.00	-.1392909E-04	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.40	.20	-.2591095E-04	.1110414E-03	.5473751E-03	.1101255E-03	11.37539	.5583433E-03
1.40	.40	-.5820677E-04	.2125350E-03	.5171241E-03	.2062734E-03	21.74635	.5567460E-03
1.40	.60	-.1034920E-03	.2993406E-03	.4779103E-03	.2832571E-03	30.65520	.5555472E-03
1.40	.80	-.1553598E-03	.3718992E-03	.4368341E-03	.3423810E-03	38.08856	.5550215E-03
1.40	1.00	-.2095254E-03	.4317565E-03	.3977199E-03	.3870823E-03	44.22343	.5549898E-03
1.40	1.20	-.2634535E-03	.4811042E-03	.3621923E-03	.4208270E-03	49.28246	.5552284E-03
1.40	1.40	-.3157693E-03	.5219842E-03	.3306761E-03	.4464563E-03	53.47380	.5555807E-03
1.40	1.60	-.3658023E-03	.5561055E-03	.3030235E-03	.4661195E-03	56.97215	.5559591E-03
1.40	1.80	-.4132884E-03	.5848336E-03	.2788531E-03	.4813885E-03	59.91763	.5563218E-03
1.40	2.00	-.4581907E-03	.6092426E-03	.2577214E-03	.4933958E-03	62.42000	.5566503E-03
1.40	2.20	-.5005908E-03	.6301664E-03	.2391990E-03	.5029580E-03	64.56894	.5569407E-03
1.40	2.40	-.5406293E-03	.6482534E-03	.2229016E-03	.5106654E-03	66.41904	.5571931E-03
1.40	2.60	-.5784682E-03	.6640137E-03	.2084978E-03	.5169485E-03	68.03458	.5574110E-03
1.60	.00	-.1161671E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.60	.20	-.1241453E-03	.9195923E-04	.5512710E-03	.9147994E-04	9.421924	.5588096E-03
1.60	.40	-.1465407E-03	.1785533E-03	.5297787E-03	.1751258E-03	18.29202	.5579735E-03
1.60	.60	-.1797431E-03	.2563524E-03	.4996457E-03	.2465108E-03	26.26041	.5571474E-03
1.60	.80	-.2198342E-03	.3241748E-03	.4656971E-03	.3048340E-03	33.20778	.5565947E-03
1.60	1.00	-.2636097E-03	.3823396E-03	.4313362E-03	.3513771E-03	39.16710	.5563423E-03
1.60	1.20	-.3088007E-03	.4318762E-03	.3985346E-03	.3881457E-03	44.24339	.5563153E-03
1.60	1.40	-.3539345E-03	.4740236E-03	.3682408E-03	.4171438E-03	48.56299	.5564261E-03
1.60	1.60	-.3981171E-03	.5099778E-03	.3407795E-03	.4400930E-03	52.24811	.5566080E-03
1.60	1.80	-.4408460E-03	.5407939E-03	.3161321E-03	.4583742E-03	55.40668	.5568180E-03
1.60	2.00	-.4818686E-03	.5673598E-03	.2941124E-03	.4730560E-03	58.12959	.5570315E-03
1.60	2.20	-.5210887E-03	.5904057E-03	.2744659E-03	.4849529E-03	60.49170	.5572350E-03
1.60	2.40	-.5585034E-03	.6105250E-03	.2569237E-03	.4946815E-03	62.55386	.5574222E-03
1.60	2.60	-.5941624E-03	.6282018E-03	.2412296E-03	.5027093E-03	64.36551	.5575914E-03
1.80	.00	-.2018574E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
1.80	.20	-.2075977E-03	.7862796E-04	.5534729E-03	.7834079E-04	8.056361	.5589896E-03
1.80	.40	-.2240475E-03	.1539698E-03	.5374860E-03	.1518416E-03	15.77516	.5585223E-03
1.80	.60	-.2492473E-03	.2235883E-03	.5139788E-03	.2171873E-03	22.90701	.5579826E-03
1.80	.80	-.2807879E-03	.2862168E-03	.4861027E-03	.2730424E-03	29.32278	.5575372E-03
1.80	1.00	-.3164127E-03	.3415786E-03	.4565029E-03	.3195822E-03	34.99455	.5572501E-03
1.80	1.20	-.3543007E-03	.3900270E-03	.4270335E-03	.3577963E-03	39.95860	.5571151E-03
1.80	1.40	-.3931131E-03	.4322301E-03	.3988240E-03	.3889673E-03	44.28317	.5570962E-03
1.80	1.60	-.4319255E-03	.4689607E-03	.3724678E-03	.4143531E-03	48.04716	.5571542E-03
1.80	1.80	-.4701337E-03	.5009780E-03	.3482057E-03	.4350725E-03	51.32831	.5572569E-03
1.80	2.00	-.5073645E-03	.5289742E-03	.3260651E-03	.4520577E-03	54.19740	.5573819E-03
1.80	2.20	-.5434018E-03	.5535518E-03	.3059560E-03	.4660615E-03	56.71623	.5575144E-03
1.80	2.40	-.5781378E-03	.5752260E-03	.2877298E-03	.4776826E-03	58.93753	.5576459E-03
1.80	2.60	-.6115336E-03	.5944308E-03	.2712158E-03	.4873918E-03	60.90561	.5577712E-03
2.00	.00	-.2757856E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.00	.20	-.2801311E-03	.6874339E-04	.5548520E-03	.6855642E-04	7.043655	.5590713E-03
2.00	.40	-.2927352E-03	.1353198E-03	.5425105E-03	.1339054E-03	13.86492	.5587919E-03
2.00	.60	-.3124468E-03	.1979833E-03	.5238047E-03	.1936042E-03	20.28488	.5584387E-03

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2.60	2.00	-.6160774E-03	.4073703E-03	.4106313E-03	.3717259E-03	41.73970	.5593549E-03
2.60	2.20	-.6417800E-03	.4337917E-03	.3986054E-03	.3909846E-03	44.44702	.5583505E-03
2.60	2.40	-.6666831E-03	.4579616E-03	.3813442E-03	.4078499E-03	46.92357	.5583591E-03
2.60	2.60	-.6914302E-03	.4800786E-03	.3649301E-03	.4226246E-03	49.18985	.5583775E-03
2.80	.00	-.4996657E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
2.80	.20	-.5015715E-03	.4589066E-04	.5572769E-03	.4583750E-04	4.702144	.5591589E-03
2.80	.40	-.5072071E-03	.9115205E-04	.5516906E-03	.9073612E-04	9.339777	.5591025E-03
2.80	.60	-.5163446E-03	.1352072E-03	.5427564E-03	.1338541E-03	13.85379	.5590182E-03
2.80	.80	-.5286378E-03	.1775734E-03	.5309740E-03	.1745207E-03	18.19467	.5589193E-03
2.80	1.00	-.5436623E-03	.2178858E-03	.5169306E-03	.2122733E-03	22.32510	.5588178E-03
2.80	1.20	-.5609605E-03	.2559025E-03	.5012313E-03	.2468573E-03	26.22032	.5587230E-03
2.80	1.40	-.5800810E-03	.2914958E-03	.4844440E-03	.2781993E-03	29.86725	.5586420E-03
2.80	1.60	-.6005974E-03	.3246327E-03	.4670646E-03	.3063665E-03	33.26248	.5585782E-03
2.80	1.80	-.6221319E-03	.3553543E-03	.4494996E-03	.3315243E-03	36.41029	.5585321E-03
2.80	2.00	-.6443574E-03	.3837536E-03	.4320673E-03	.3538970E-03	39.32016	.5585027E-03
2.80	2.20	-.6670021E-03	.4099573E-03	.4150039E-03	.3737381E-03	42.00511	.5584876E-03
2.80	2.40	-.6898427E-03	.4341111E-03	.3984757E-03	.3913078E-03	44.48001	.5584841E-03
2.80	2.60	-.7127023E-03	.4563683E-03	.3825929E-03	.4068590E-03	46.76057	.5584904E-03
3.00	.00	-.5438519E-03	.0000000	.5591791E-03	.0000000	.0000000	.5591791E-03
3.00	.20	-.5454745E-03	.4238581E-04	.5575591E-03	.4234417E-04	4.343026	.5591647E-03
3.00	.40	-.5502841E-03	.8427720E-04	.5527854E-03	.8394996E-04	8.635366	.5591237E-03
3.00	.60	-.5581141E-03	.1252146E-03	.5451036E-03	.1241440E-03	12.82993	.5590613E-03
3.00	.80	-.5687093E-03	.1648024E-03	.5348846E-03	.1623694E-03	16.88617	.5589861E-03
3.00	1.00	-.5817495E-03	.2027270E-03	.5225763E-03	.1982161E-03	20.77202	.5589058E-03
3.00	1.20	-.5968828E-03	.2387645E-03	.5086558E-03	.2314270E-03	24.46448	.5588282E-03
3.00	1.40	-.6137483E-03	.2727769E-03	.4935863E-03	.2618858E-03	27.94942	.5587589E-03
3.00	1.60	-.6319985E-03	.3047015E-03	.4777892E-03	.2895929E-03	31.22047	.5587006E-03
3.00	1.80	-.6513128E-03	.3345388E-03	.4616270E-03	.3146369E-03	34.27765	.5586555E-03
3.00	2.00	-.6714074E-03	.3623357E-03	.4453964E-03	.3371662E-03	37.12581	.5586224E-03
3.00	2.20	-.6920353E-03	.3881741E-03	.4293309E-03	.3573662E-03	39.77330	.5586015E-03
3.00	2.40	-.7129903E-03	.4121568E-03	.4136057E-03	.3754380E-03	42.23064	.5585905E-03
3.00	2.60	-.7341006E-03	.4343993E-03	.3983467E-03	.3915874E-03	44.50974	.5585882E-03

STOP

D.E.N.-C.L.E.T.-OFICIUL DE CALCUL TIMISOARA SISTEM P-193 / M16.A
0018 IFCA AN = 8021 PN = 0004 DATE = 05/03/84-065
H.DEB = 10H 01M 46S H.FIN = 10H 03M 20S TIME = 00004179 CODE = 000
LGP = 00052 MEM = 00012 LO = 00000740 IN = 00000002 PUN = 00000000

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ANEXA 4

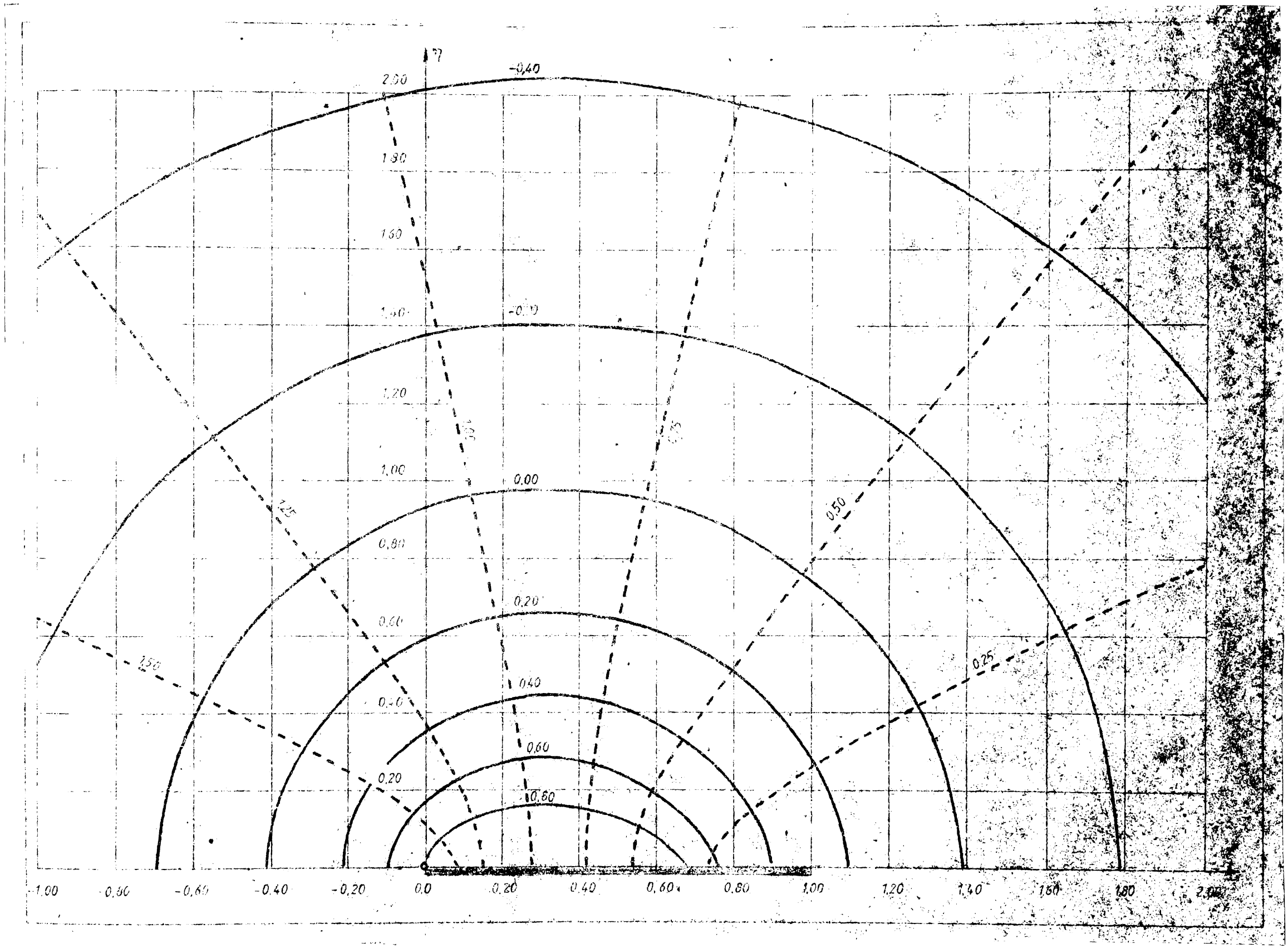
In această anexă s-au reprezentat grafic liniile echipotenţiale şi de curent calculate cu programul IFGA din anexa 3.

Liniile echipotenţiale s-au trasat din 0.2 în 0.2, iar cele de curent din 0.25 în 0.25.

Legendă

———	Linie echipotenţială
- - - - - - - -	Linie de curent
	Canal de îmbogăţire
ξ η	Coordonate adimensionale

BUPT


-0,40
2,00
1,80
1,60
1,40
1,20
1,00
0,80
0,60
0,40
0,20
0,00
0,50
0,25
1,25
1,50
0,20
0,40
0,60
0,80
1,00
1,20
1,40
1,60
1,80
2,00

BUPT

ANEXA 5

In această anexă sînt prezentate valorile citirilor pentru placa fără surse interioare din deformarea tehnic posibilă a marginilor.

Legendă

Margine încastrată

Margine liberă

V_1

V_2

V_1=Valoarea citirilor C_m la puntea tensiometrică citirea finală-citirea ini

V_2=Laplacianul valorilor V_1 cu semn schimbat.Se calculează cu formula

$$-(C_{m1}+C_{m2}+C_{m3}+C_{m4}-4C_{mo})$$

Cu aceste valori se încarcă placa avînd reazemele conjugate.

Obs.

1 Punctul. este virgula zecimală

2 Pentru economie nu s-au mai tipărit şi zerourile din stînga acestui punct.

BUPT

y										
100	0	0	0	0	0	0	0	0	0	0
		-4.0	-4.0	-3.6	-3.0	-2.6	-2.0	-1.4	-1.0	-0.4
90	2.5	2.3	2.0	1.8	1.5	1.3	1.0	0.7	0.5	0.2
		-3.7	-3.6	-2.9	-2.7	-2.0	-1.7	-1.5	-0.5	-0.6
80	9.3	8.4	7.5	6.6	5.6	4.7	3.7	2.8	1.9	0.9
		-3.0	-2.5	-2.1	-2.0	-1.5	-1.5	-0.9	-0.5	-0.4
70	19.4	17.5	15.5	13.6	11.6	9.7	7.8	5.8	3.9	1.9
		-1.8	-1.9	-1.5	-1.5	-1.1	-0.6	-0.8	-0.3	-0.4
60	31.6	28.5	25.3	22.2	19.0	15.8	12.6	9.5	6.3	3.2
		-0.9	-1.0	-0.6	-0.6	-0.6	-0.7	-0.2	-0.4	-0.1
50	45.0	40.5	36.0	31.5	27.0	22.5	18.0	13.5	9.0	4.5
		0	0.1	0	0.1	0	0.1	0.0	0.0	0.0
40	58.3	52.5	46.6	40.8	34.9	29.2	23.3	17.5	11.7	5.8
		1.1	0.7	0.8	0.3	0.8	0.3	0.3	0.4	0.1
30	70.6	63.5	56.4	49.4	42.3	35.3	28.2	21.2	14.1	7.1
		1.9	1.6	1.7	1.2	1.2	0.7	0.8	0.3	0.2
20	80.6	72.6	64.5	56.4	48.4	40.3	32.3	24.2	16.1	8.0
		3.1	2.8	2.1	2.1	1.5	1.5	1.0	0.6	0.0
10	87.5	78.7	69.8	61.2	52.5	43.7	35.0	26.2	17.5	8.8
		3.9	2.8	3.1	2.7	2.0	1.8	1.1	2.9	0.7
0	90	81	72	63	54	45	36	27	18	9
		4.6	4.4	3.6	3.0	2.6	2.0	1.6	1.0	0.4
	0	10	20	30	40	50	60	70	80	90

x

BUPT

ANEXA 6

In nodurile reţelei plăcii cu reazemele conjugate şi încărcate cu valorile V_2 din Anexa 5, se verifică dacă laplacianul este egal cu 0. (placa reală nu are surse interioare). Neconcordanţe în unele puncte s-au corectat prin relaxare. Valorile V_2 rezultate în nodurile reţelei, notate cu C_{mi}' reprezintă înălţimea piezometrică din deformaţia tehnic posibilă.

Pentru a ajunge în situaţia finală pe frontierele de alimentare se aplică o corectură δC_i calculată cu relaţia (6.50). Se observă că de fapt corectura este un moment cunoscut aplicat pe marginea plăcii cu rezemarea conjugată iar în interiorul domeniului nu există încărcări.

In continuare valoarea C_{mi}' se notează cu C_a .

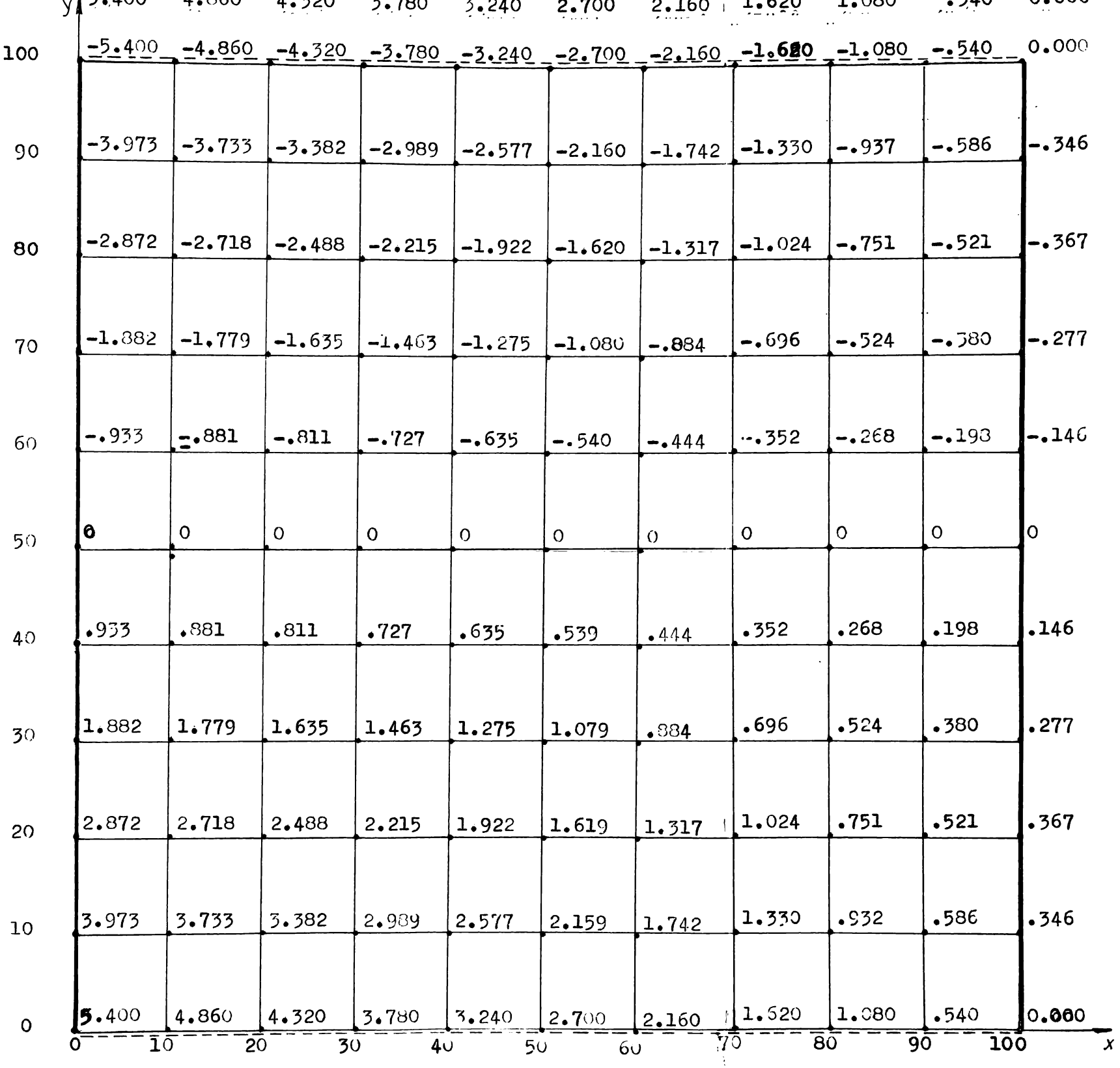
Obs.

1 Punctul . este virgula zecimală.

2 pentru economie nu s-au mai tipărit şi zerourile din stînga acestui punct.

BUPT

C_{mi} =	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
$-C_{mi}'$ =	5.400	4.860	4.320	3.780	3.240	2.700	2.160	1.620	1.080	.540	0.000
δC_i =	5.400	4.860	4.320	3.780	3.240	2.700	2.160	1.620	1.080	.540	0.000



C_{mi} =	.700	.650	.600	.530	.470	.300	.320	.240	.160	.080	0.000
$-C_{mi}'$ =	-5.400	-4.860	-4.320	-3.780	-3.240	-2.700	-2.160	-1.620	-1.080	-.540	0.000
δC_i =	-4.700	-4.210	-3.720	-3.250	-2.770	-2.310	-1.840	-1.380	-.92	-.460	0.000

BUPT

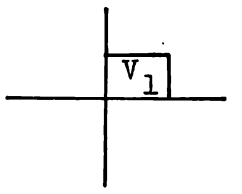
ANEXA 7

Valorile δc_i aplicate pe frontiera plăcii conjugate se transmit în punctele interioare ale domeniului. Se obţin valorile notate cu $[\delta c_i]$.

Legendă

Margine încastrată

Margine liberă



V_1=Valoarea corecturii $[\delta c_1]$.

BUPT

y \ x	100	90	80	70	60	50	40	30	20	10	0	
	5.400	4.860	4.320	3.780	3.240	2.700	2.160	1.620	1.080	0.540	0.00	
100	4.019	3.779	3.427	3.031	2.618	2.197	1.777	1.364	0.968	0.616	0.375	
90	2.965	2.810	2.577	2.301	2.003	1.695	1.388	1.089	0.813	0.580	0,425	
80	2.024	1.919	1.771	1.593	1.397	1.193	0.989	0.793	0.615	0.467	0.362	
70	1.126	1.071	0.996	0.903	0.800	0.692	0.583	0.479	0.386	0.310	0.255	
60	0.248	0.245	0.236	0.224	0.208	0.190	0.172	0.155	0.141	0.132	0.128	
50	-0.624	-0.576	-0.517	-0.452	-0.382	-0.311	-0.240	-0.172	-0.108	-0.051	-0.003	
40	-1.504	-1.407	-1.279	-1.132	-0.974	-0.811	-0.650	-0.495	-0.351	-0.227	-0.131	
30	-2.412	-2.268	-2.061	-1.823	-1.569	-1.311	-1.055	-0.806	-0.573	-0.374	-0.233	
20	-3.412	-3.191	-2.875	-2.529	-2.170	-1.810	-1.451	-1.100	-0.764	-0.462	-0.250	
10	-4.700	-4.210	-3.720	-3.250	-2.770	-2.310	-1.840	-1.380	-0.920	-0.460	0.000	
0	0	10	20	30	40	50	60	70	80	90	100	x

BUPT

ANEXA 8

In această anexă, pentru placa în situaţia reală, sînt prezentate valorile înălţimilor piezometrice în nodurile reţelei rezultate după corectura lor conform relaţiei (6.51), Constanta modelării este $C_1=1$ (domeniu fără surse interioare, analogie automodelatoare).

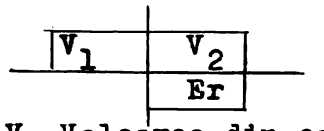
$$H=[c_a]+[\delta c]$$

Val.anexa 8 = Val. anexa 7+Val. anexa 6

Legendă

Margine încastrată

Margine liberă



V_1=Valoarea din calculul analogic

V_2=Valoarea din rularea programului MELFIN-1

Er=Eroarea în % calculată după formula

$$Er=\left[\frac{V_1}{V_2}-1\right]\times 100$$

Obs.

1.Unde nu sînt figurate valorile V_2 acolo valorile V_1 coincid cu V_2 şi Er=0.

2. Punctul . este virgula zecimală.

3. Pentru economie de spaţiu nu s-au mai tipărit şi zerourile din stînga acestui punct.

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y	0	10	20	30	40	50	60	70	80	90	100	x
100	0	0	0	0	0	0	0	0	0	0	0	
90	.046	.046	.045	.042	.041	.037	.038 .035 -2.63%	.034	.033 .031 3.03%	.030	.029	.030 -3.33%
80	.093	.092	.089	.086	.081	.075	.076 .071 -1.31%	.065	.066 .062 -1.5%	.059	.058	
70	.142	.140	.141 .136 .7%	.130	.122	.113	.114 .105 -.87%	.097	.091	.087	.085	
60	.193	.190	.191 .185 -.52%	.176	.165	.152	.139	.127	.118	.112	.109	
50	.248	.245	.236	.237 .224 -.42%	.208	.190	.172	.155	.141	.132	.128	.129 -.77%
40	.309	.305	.294	.293 .275 .34%	.253	.228	.229 .204 -.43%	.180	.160	.161 .147 -.62%	.143	.142 .70%
30	.378	.372	.356	.358 .331 -.55%	.301	.268	.234	.201	.173	.153	.146	
20	.460	.450	.427	.426 .390 .23%	.392 .353 -.51%	.352 .308 .28%	.262	.263 .218 -.38%	.178	.147	.134	
10	.561	.542	.507	.460	.459 .407 .21%	.408 .349 .24%	.291	.230	.173	.124	.095	
0	.700	.650	.600	.530	.470	.390	.320	.240	.160	.080	0	

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ANEXA 9.

Vezi explicaţia de la Anexa 5 cu menţiunea că placa este deformată în continuare faţă de situaţia din Anexa 5 cu o încărcare de 1,865 daN în punctul de coordonate 50, 90.

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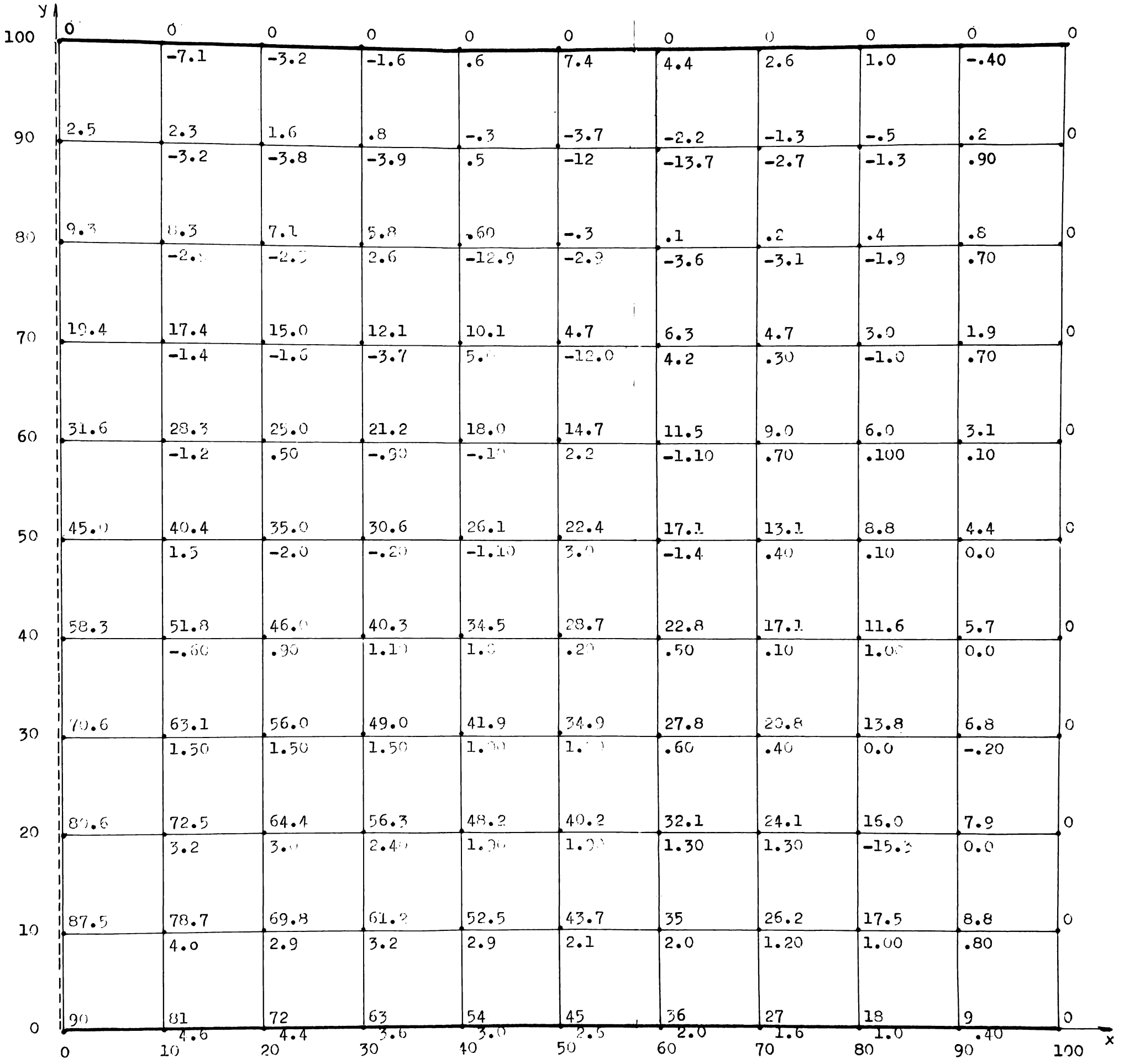
y
100
90
80
70
60
50
40
30
20
10
0
0 0 0 0 0 0 0 0 0 0 0
-7.1 -3.2 -1.6 .6 7.4 4.4 2.6 1.0 -.40
2.5 2.3 1.6 .8 -.3 -3.7 -2.2 -1.3 -.5 .2 0
-3.2 -3.8 -3.9 .5 -12 -13.7 -2.7 -1.3 .90
9.3 8.3 7.1 5.8 .60 -.3 .1 .2 .4 .8 0
-2.3 -2.3 2.6 -12.9 -2.3 -3.6 -3.1 -1.9 .70
19.4 17.4 15.0 12.1 10.1 4.7 6.3 4.7 3.0 1.9 0
-1.4 -1.6 -3.7 5.6 -12.0 4.2 .30 -1.0 .70
31.6 28.3 25.0 21.2 18.0 14.7 11.5 9.0 6.0 3.1 0
-1.2 .50 -.30 -.10 2.2 -1.10 .70 .100 .10
45.0 40.4 35.0 30.6 26.1 22.4 17.1 13.1 8.8 4.4 0
1.5 -2.0 -.20 -1.10 3.0 -1.4 .40 .10 0.0
58.3 51.8 46.0 40.3 34.5 28.7 22.8 17.1 11.6 5.7 0
-.60 .90 1.10 1.0 .20 .50 .10 1.00 0.0
70.6 63.1 56.0 49.0 41.9 34.9 27.8 20.8 13.8 6.8 0
1.50 1.50 1.50 1.50 1.40 .60 .40 0.0 -.20
80.6 72.5 64.4 56.3 48.2 40.2 32.1 24.1 16.0 7.9 0
3.2 3.00 2.40 1.90 1.90 1.30 1.30 -15.3 0.0
87.5 78.7 69.8 61.2 52.5 43.7 35 26.2 17.5 8.8 0
4.0 2.9 3.2 2.9 2.1 2.0 1.20 1.00 .80
90 81 72 63 54 45 36 27 18 9 0
4.6 4.4 3.6 3.0 2.5 2.0 1.6 1.0 .40
0 10 20 30 40 50 60 70 80 90 100
x

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ANEXA 10

In această anexă se reprezintă valorile $\frac{M}{D}$ calculate cu formula

$$\frac{M}{D} = -\left[C_{m1}+C_{m2}+C_{m3}+C_{m4}-4C_{mo}\right]\frac{\alpha l^2}{l^2}C_{ap}$$

In punctele interioare neîncărcate se obţine conform (6.4) $\Delta M=0$.

In punctul de coordonate (50,90) se obţine

$D\Delta\frac{M}{D} = -0.24038\times(+4.44+5.902+5.067+4.333-4\times6.882)=$

$=1.871$ daN cu o eroare de 0.32% faţă de 1.865 daN cît s-a aplicat pe placă.

Obs.

1 Punctul . este virgula zecimală.

2 Pentru economie nu s-au mai tipărit şi zerourile din stînga acestui punct.

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y										
100	-10.134	-9.121	-8.107	-7.094	-6.080	-5.067	-4.054	-3.040	-2.026	-1.013	0.000
90	-7.617	-7.189	-6.615	-6.092	-5.902	-6.882	-4.333	-2.982	-2.025	-1.283	-.808
80	-5.667	-5.406	-5.067	-4.759	-4.560	-4.440	-3.425	-2.528	-1.812	-1.283	-.964
70	-3.868	-3.697	-3.508	-3.314	-3.136	-2.905	-2.404	-1.873	-1.418	-1.073	-.854
60	-2.096	-2.013	-1.934	-1.859	-1.769	-1.638	-1.409	-1.154	-.916	-.733	-.617
50	-.319	-.330	-.360	-.405	-.448	-.469	-.448	-.405	-.360	-.330	-.317
40	1.478	1.373	1.223	1.051	.850	.658	.489	.339	.208	.097	.000
30	3.320	3.122	2.841	2.507	2.143	1.769	1.409	1.067	.758	.499	.309
20	5.245	4.954	4.515	3.999	3.442	2.871	2.308	1.764	1.257	.831	.544
10	7.383	6.932	6.219	5.528	4.755	3.969	3.186	2.417	1.683	1.027	.578
0	10.134	9.121	8.107	7.094	6.080	5.067	4.054	3.040	2.026	1.013	0.000
	0	10	20	30	40	50	60	70	80	90	100 x

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ANEXA 11

Folosind scara α_M definită prin formula 6.16 în această anexă s-au calculat valorile înălţimilor piezometrice din deformaţia tehnic posibilă.

$$H=\alpha_M M = \alpha_M D\left[\frac{M}{D}\right]=2.21662\times 0.24038\frac{M}{D}=0.53283\frac{M}{D}$$

adică de fapt

$$H=\alpha_M D\times\left\{-\left[C_{m1}+C_{m2}+C_{m3}+C_{m4}-4C_{mo}\right]\right\}\frac{\alpha\ell^2}{\ell^2}C_{ap}=$$

$$=-C_1\left(C_{m1}+C_{m2}+C_{m3}+C_{m4}-4C_{mo}\right).$$

Valorile H obţinute se notează cu C_{mi}'

Pentru a ajunge în situaţia finală pe frontierele de alimentare se aplică o corectură C_i calculată cu relaţia 6.50 .Se observă că aceste corecturi au aceiaşi valoare ca în anexa6, iar repartizarea lor este cea din anexa 7.

In continuare valorile C_{mi}' se notează cu C_a.

Obs. 1 Punctul . este virgula zecimală.

2 Pentru economie de spaţiu nu s-au mai tipărit zerourile din stînga acestui punct.

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C_{mi} =	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
$-C_{mi}'$ =	5.400	4.860	4.320	3.780	3.240	2.700	2.160	1.620	1.080	.540	0.000
δC_i =	5.400	4.860	4.320	3.780	3.240	2.700	2.160	1.620	1.080	.540	0.000

y											
100	-5.400	-4.860	-4.320	-3.780	-3.240	-2.700	-2.160	-1.620	-1.080	-.540	0.000
90	-4.059	-3.831	-3.525	-3.246	-3.145	-3.667	-2.309	-1.589	-1.079	-.684	-.431
80	-3.020	-2.881	-2.700	-2.536	-2.430	-2.366	-1.825	-1.347	-.966	-.684	-.514
70	-2.061	-1.970	-1.869	-1.766	-1.671	-1.548	-1.281	-.998	-.756	-.572	-.455
60	-1.117	-1.073	-1.031	-.991	-.943	-.873	-.751	-.615	-.488	-.391	-.329
50	-.170	-.176	-.192	-.216	-.239	-.250	-.239	-.216	-.192	-.176	-.169
40	.788	.732	.652	.560	.453	.351	.261	.181	.111	.053	0.000
30	1.769	1.664	1.514	1.336	1.142	.943	.751	.569	.404	.266	.165
20	2.795	2.640	2.406	2.131	1.834	1.530	1.230	.940	.670	.443	.290
10	3.934	3.694	3.341	2.946	2.534	2.115	1.698	1.288	.897	.547	.308
0	5.400	4.860	4.320	3.780	3.240	2.700	2.160	1.620	1.080	.540	0.000
	0	10	20	30	40	50	60	70	80	90	100 x

C_{mi} =	.700	.650	.600	.530	.470	.390	.320	.240	.160	.080	0.000
$-C_{mi}'$ =	-5.400	-4.860	-4.320	-3.780	-3.240	-2.700	-2.160	-1.620	-1.080	-.540	0.000
$\delta C_i'$ =	-4.700	-4.210	-3.720	-3.250	-2.770	-2.310	-1.840	-1.380	- .920	-.460	0.000

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ANEXA 12

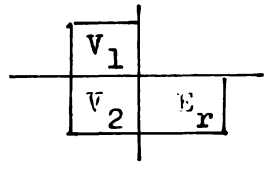
In această anexă pentru placă în situaţia reală sînt prezentate valorile înălţimilor piezometrice în nodurile reţelei rezultate după corectura lor conform relaţiei (6.51).

Val.anexa 12 = Val.anexa11+Val.anexa7

Legendă

Margine încastrată

Margine liberă



$$E_r = \left[\frac{V_1}{V_2} - 1\right] \times 100 \quad \text{în \%}$$

Obs.

1 Unde nu sînt figurate valorile V_2 acolo valorile V_2 coincid cu valorile V_1 şi $E_r = 0$.

2 Punctul . este virgula zecimală.

3 Pentru economie de spaţiu nu s-au mai tipărit şi zerourile din stînga acestui punct.

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y	0	10	20	30	40	50	60	70	80	90	100	x
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
90	-.040	-.052	-.098	-.215	-.527	-1.470	-.532	-.225	-.111	-.068	-.056	
						-1.466	.27%					
80	-.055	-.071	-.123	-.235	-.427	-.671	-.437	-.258	-.153	-.104	-.089	
			-.125	-1.6%				-.255	1.17%			
70	-.037	-.051	-.098	-.173	-.274	-.355	-.292	-.205	-.141	-.105	-.093	
			-.096	2.08%								
60	.009	-.002	-.035	-.088	-.143	-.181	-.168	-.136	-.102	-.081	-.074	
				-.086	2.32%			-.134	1.49%			
50	.078	.069	.044	.008	-.031	-.060	-.067	-.061	-.051	-.044	-.041	
40	.164	.156	.135	.102	.071	.040	.021	.009	.003	-.001	-.003	
				.104	-1.92%	.041	-2.43%					
30	.265	.257	.235	.204	.168	.132	.101	.074	.053	.039	.034	
											.033	3.03%
20	.383	.372	.345	.308	.265	.219	.175	.134	.097	.069	.057	
10	.522	.503	.466	.417	.364	.305	.247	.188	.133	.085	.058	
											.057	1.75%
0	.700	.650	.600	.530	.470	.390	.320	.240	.160	.080	.000	

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