

```

12  TERM1 = 0.
    GO TO 14
13  TERM1 = COEF1*LOG(DOG3)
14  COW1 = BETA*BETAP-2.*ALPHA*GAMAP
    COW2 = BETA*GAMAP-2.*GAMA*BETAP
    RIGH1 = (COW1*R*R-COW2)/EPSI
    RIGH2 = (COW1*R1*R1-COW2)/EPSI1
    PIG1 = BETA*BETA-4.*ALPHA*GAMA
    IF(PIG1)16,15,16
15  TERM2 = 0.
    GO TO 17
16  COEF2 = STRO*Z*(3.*A2(I)-4.*A1(I))/(3.*PIG1)
    TERM2 = COEF2*(RIGH1-RIGH2)
17  P1 = R1*RING*(A1(I)*R1*R1+3.*A2(I)*Z*Z+A3(I))
    TERM3 = (B/3.)*(2.*A1(I)-3.*A2(I))*(R*R-R1*R1)
    STRR = TERM1+TERM2+TERM3-P1
    TERM4 = ((4./3.)*A1(I)*STRO*R*R)/EPSI
    TERM5 = (2./3.)*A1(I)*B*(R*R+R1*R1)
    TERM6 = A2(I)*B*(R*R-R1*R1)
    STRT = TERM1+TERM2-TERM4-TERM5-TERM6-P1
    PIG2 = 7.*A1(I)*R*R+9.*A2(I)*Z*Z+3.*A3(I)
    TERM7 = ((2./3.)*STRO*PIG2)/EPSI
    TERM8 = (2./3.)*A1(I)*B*(6.*R*R+R1*R1)
    TERM9 = 6.*A2(I)*B*Z*Z
    STRZ = TERM1+TERM2-TERM7-TERM8-TERM6-TERM9-2.*A3(I)*B-P1
    PRESS = (1./3.)*(STRR+STRT+STRZ)
    PIG3 = (2./3.)*R*Z*(3.*A2(I)-4.*A1(I))
    TAURZ = B*PIG3+(STRO*PIG3)/EPSI
    TAUNO = (1./2.)*STRO+(1./2.)*B*EPSI
    TAURZ = ABS(TAURZ)
    TAUNO = ABS(TAUNO)
    IF(TAUNO-TAURZ)31,33,33
31  TAURZ = TAUNO
33  PUNCH, STRR, STRT, STRZ, R
    PUNCH, PRESS, TAURZ
    IF(R-R1)8,37,37
37  PUNCH, R1, P1, Z, HC
    IF(Z-HC)6,40,40
40  CONTINUE
    PUNCH, RO, HO, STRO, B
    PUNCH, UNU, G
    PUNCH, F, RING, STRAC
    GO TO 1
    END

```

FIG. 23 (CONTINUED)