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C C
C DAVIS, R. TRIAL AND ERROR SOLUTION FOR COEFFICIENTS
  DIMENSION ARU(6), SIM(6), A34(50)
1  READ, RO, HO, STRO, B
2  READ, UNU, G
3  READ, DIF1, RING, A2, F
4  F1 = 1.+DIF1
5  F1 = F1 + DIF1
   NAN = 1
   CUP = 0.02
   SAM = 0.
   X = 0.
   Y = 0.
   RC = F1*RO
   DELTA = (HO*(1.-1./(F1**2.)))*2.
10  PRINT, DELTA
   A2 = -0.010
   HC = HO-DELTA/2.
   L = 1
   M = 0
   MAN = 0
   HC1 = 2.*HO - DELTA
11  A3 = DELTA/(2.*HC1)-(A2*(HC1*HC1))/4.
   M = M+1
   MAN = MAN+1
12  A1 = ((RC-RO)/(RC*RC*RC))-(A3/(RC*RC))
13  PC = (RC*RING)*(A1*RC*RC+A3)
   ALPHT = (52./3.)*A1*A1
   HAMT = 12.*A1*A2+9.*A2*A2+16.*A1*A1
   BETT = (4./3.)*(HAMT*HC*HC+12.*A1*A3)
14  BETTP = (8./3.)*(HAMT*HC)
   GAMT = 4.*(3.*A2*HC*HC+A3)*(3.*A2*HC*HC+A3)
   GAMTP = 48.*A2*(3.*A2*HC*HC+A3)*HC
   RT = RC
43  RT3 = A1*RT*RT
   RT4 = 3.*A2*HC*HC+A3
   RT1 = RO+(RT3+RT4)*RT
   RT2 = ABS(RT1-RT)
   IF(RT2-0.001)15,15,35
35  RT = 0.25*(3.*RT+RT1)
   GO TO 43

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FIG. 21 COMPUTER PROGRAM FOR DETERMINING UNKNOWN DISPLACEMENT COEFFICIENTS. SOLID WAFER