

$$L = 3.14 * (N(j) + V(j)) / 2$$

$$Wkpr = Uk * Tu / (2 * Br * S)$$

$$w = 0$$

$$w = w + 1$$

If w = 1 Then GoTo 8

$$6 Rb = Rb - 200$$

Print "Rb=", Rb

Print "Wb=", Wb

Print "Wk3=", Wk3

Print "Wv=", Wv

Print "Wsm=", Wsm

GoTo 12

$$7 Rb = Rb + 200$$

Print "Rb=", Rb

Print "Wb=", Wb

Print "Wk3=", Wk3

Print "Wv=", Wv

Print "Wsm=", Wsm

GoTo 12

$$8 V = 0$$

$$9 V = V + 1$$

If V > 1 Then GoTo 10

$$Wv = Nv * Wkpr$$

$$10 i = 0$$

$$11 i = i + 1$$

If i > 1 Then GoTo 12

$$Wsm = Nsm * Wkpr$$

$$ism = Hsm * L / Wsm$$

$$Rsm = Esm / ism$$

$$12 Rv1 = Rv / Nv^2$$

$$Rsm1 = Rsm / Nsm^2$$

$$C = Rv1 * Rsm1 / (Rv1 * Rsm1 + Rk * Rsm1 + Rk * Rv1)$$

$$F = (Rsm1 + Rv1) / (Rv1 * Rsm1 + Rk * Rsm1 + Rk * Rv1)$$

$$P = Wsm^2 * Rb / Rsm + Wv^2 * Rb / Rv + Hs * (1 + q) * Tu * L * Rb / (2 * Br * S) + Bs * L * Rb * (Atn(Br / Bs)) / (Br * S * Rm)$$

$$X = Hs * (1 + q) * L * C$$

$$U = Bet * (1 - F * Rk) * Uk + Eb * C$$

$$M = Bet * Eb + Rb * Uk * F$$

$$d1 = 4 * Br * S * Rk * (1.21 * M - Uk * C * Rb / Rk) * (1.21 * Rb * X + Uk^2 * C * Rb * Tu / (2 * Br * S * Rk)) - 1.21 * U^2 * Rb * Uk * Tu - 4.84 * U * Bet * Rk * X * Rb * Br * S$$

$$d2 = 2 * Br * S * Rk * (1.21 * M - Uk * C * Rb / Rk)^2 + 2.42 * U^2 * Rb * Br * S$$

$$d = d1 / d2$$

$$e1 = 2 * Br * S * Rk * (1.21 * Rb * X + Uk^2 * C * Rb * Tu / (2 * Br * S * Rk))^2 - 4 * Br * S * Rk * Uk * C * P * (1.21 * M - Uk * C * Rb / Rk)$$

$$e2 = 2.42 * U^2 * Br * S * Rk * P + 2.42 * U * Bet * Rk * X * Rb * Uk * Tu + 2.42 * Bet^2 * Rk^2 * X^2 * Rb * Br * S$$

$$e3 = (2 * Br * S * Rk * (1.21 * M - Uk * C * Rb / Rk)^2 + 2.42 * U^2 * Rb * Br * S)$$