$$U_1 = 3\,\frac{s/r}{D_1}$$

$$U_2 = \frac{s/r}{D_2}$$

$$V_1 = \frac{1 - (\frac{\Delta}{r})^2 - \frac{9}{4}\,(\frac{s}{r})^2}{D_1}$$

$$V_2 = \frac{1 - (\frac{\Delta}{r})^2 - \frac{1}{4}\,(\frac{s}{r})^2}{D_2}$$

$$D_1 = (1 + \frac{\Delta}{r})^2 + \frac{9}{4}\,(\frac{s}{r})^2$$

$$D_2 = (1 + \frac{\Delta}{r})^2 + \frac{1}{4}\,(\frac{s}{r})^2 \qquad (5)$$

$$F_3 = (\frac{2\pi}{\ln 2})(\frac{1}{1 + \eta_3})$$

where

$$\eta_3 = \frac{1}{2 \ln 2} \ln \frac{\beta_1^2\ \beta_2^2}{4\beta_3\ \beta_4\ \beta_5\ \beta_6}$$

$$\beta_1 = (y_2 - y_3)^2 + (x_2 + x_3)^2$$

$$\beta_2 = (y_2 + y_3)^2 + (x_2 + x_3)^2$$

$$\beta_3 = 4\ x_3^2$$

$$\beta_4 = 4\ x_3^2 + 4\ y_3^2$$

$$\beta_5 = 4\ x_2^2$$

$$\beta_6 = 4\ x_2^2 + 4\ y_2^2$$

$$x_2 = \frac{s/r}{D_3}$$