Given Using Eq. 24 to 31 in this file for finding coeffiicients of the equations

Coefficient of gradient of theta set to zero

$$\frac{ro\cdot\Delta\theta}{ro}A - \frac{ro\cdot\Delta\theta}{ro}B + \left(\frac{2ro\Delta\theta}{ro}\right)\cdot C - \left(\frac{2\cdot ro\cdot\Delta\theta}{ro}\right)D = 0$$

Similarly setting the coeffient of second order derivative of theta to 1/ro^2

$$\frac{(ro\cdot\Delta\theta)^2}{ro^2\,2!}\cdot A + \frac{(ro\cdot\Delta\theta)^2}{ro^2\,2!}\cdot B + \frac{(2\cdot ro\cdot\Delta\theta)^2}{ro^2\,2!}\cdot C + \frac{(2\cdot ro\cdot\Delta\theta)^2}{ro^2\,2!}\cdot D = \frac{1}{ro^2}$$

Setting the coeffient of third order derivative of theta to zero

$$\frac{(ro\cdot\Delta\theta)^3}{ro^3\,3!}\cdot A - \frac{(ro\cdot\Delta\theta)^3}{ro^3\,3!}\cdot B + \frac{(2\cdot ro\cdot\Delta\theta)^3}{ro^3\,3!}\cdot C - \frac{(2\cdot ro\cdot\Delta\theta)^3}{ro^3\,3!}\cdot D = 0$$

Similarly setting the coeffient of fourth order derivative of theta to zero

$$\frac{(ro\cdot\Delta\theta)^4}{ro^4\,4!}\cdot A + \frac{(ro\cdot\Delta\theta)^4}{ro^4\,4!}\cdot B + \frac{(2\cdot ro\cdot\Delta\theta)^4}{ro^4\,4!}\cdot C + \frac{(2\cdot ro\cdot\Delta\theta)^4}{ro^4\,4!}\cdot D = 0$$

$$\mathrm{Find}(A,B,C,D) \rightarrow \begin{pmatrix} \dfrac{4}{3\cdot ro^2\cdot\Delta\theta^2} \\ \dfrac{4}{3\cdot ro^2\cdot\Delta\theta^2} \\ \dfrac{-1}{12\cdot ro^2\cdot\Delta\theta^2} \\ \dfrac{-1}{12\cdot ro^2\cdot\Delta\theta^2} \end{pmatrix}$$

Given

Setting the coefficient of gradient of T with r to 1/ro

$$E\cdot\Delta r - F\cdot\Delta r + G\cdot 2\Delta r - H\cdot 2\cdot\Delta r = \frac{1}{ro}$$

Setting the coefficient of second order derivative T with r to 1

$$E\cdot\frac{\Delta r^2}{2!} + F\cdot\frac{\Delta r^2}{2!} + G\cdot\frac{(2\Delta r)^2}{2!} + H\cdot\frac{(2\Delta r)^2}{2!} = 1$$

Setting the coefficient of third order derivative of T with r to 0

$$E\cdot\frac{\Delta r^3}{3!} - F\cdot\frac{\Delta r^3}{3!} + G\cdot\frac{(2\Delta r)^3}{3!} - H\cdot\frac{(2\Delta r)^3}{3!} = 0$$

Setting the coefficient of fourth order derivative of T with r to 0

$$E\cdot\frac{\Delta r^4}{4!} + F\cdot\frac{\Delta r^4}{4!} + G\cdot\frac{(2\Delta r)^4}{4!} + H\cdot\frac{(2\Delta r)^4}{4!} = 0$$

$$\mathrm{Find}(E,F,G,H) \rightarrow \begin{pmatrix} \frac{2}{3}\cdot\frac{2\cdot ro + \Delta r}{\Delta r^2\cdot ro} \\ \frac{2}{3}\cdot\frac{2\cdot ro - \Delta r}{\Delta r^2\cdot ro} \\ \frac{-1}{12}\cdot\frac{ro + \Delta r}{\Delta r^2\cdot ro} \\ \frac{-1}{12}\cdot\frac{ro - \Delta r}{\Delta r^2\cdot ro} \end{pmatrix}$$