

$$x_2 = x_1 + \Delta x_{fr} \frac{p_1 - p_0}{p_1} \, ,$$

$$p_{y2} = p_{y1} + y_1 \frac{\Delta y_{fr} - \Delta y_{fra} y_1^2}{p_1^2} \, ,$$

$$z_2 = z_1 + \frac{\Delta x_{fr} p_{x1} + (\Delta y_{fr} - \Delta y_{fra} y_1^2/2) y_1^2/(2 p_1)}{p_1} \, ,$$

$$\text{where } \Delta x_{fr} \equiv \frac{F1^2}{24 \rho_b} \, ,$$

$$\Delta y_{fr} \equiv \frac{F1}{6 \rho_b^2} \, ,$$

$$\Delta y_{fra} \equiv \frac{2}{3} \frac{1}{F1 \rho_b^2} \, ,$$

$$\rho_b \equiv \frac{L'}{\text{ANGLE} + K0} \, ,$$

$$L' \equiv L - \frac{(\text{ANGLE } F1)^2}{24 L} \\ \times \frac{\sin((\text{ANGLE}(1 - E1 - E2) - AE1 - AE2)/2)}{\sin(\text{ANGLE}/2)} \, .$$