$$p_{z2} = \sqrt{p_{x1}^2 + p_{z1}^2 - p_{x2}^2},$$

$$x_2 = x_1 \cos \omega + \rho_b (p_{z2} - p_{z1} \cos \omega + p_{x1} \sin \omega) + \rho_0 (\cos(\omega + \psi_1) - \cos \psi_2),$$

$$y_2 = y_1 + s \frac{p_{y1}}{\sqrt{p_1^2 - p_{y1}^2}},$$

$$z_2 = z_1 - s \frac{p_1}{\sqrt{p_1^2 - p_{y1}^2}} + \frac{v_1}{v_0} L',$$

 $\times \left| \sin^{-1} \frac{p_{x1}}{\sqrt{p_1^2 - p_{v1}^2}} - \sin^{-1} \frac{p_{x2}}{\sqrt{p_2^2 - p_{v2}^2}} + \omega \right|.$

(97)

 $p_{x2} = -\frac{\rho_0}{\rho_b}(\sin\psi_2 + \sin(\omega + \psi_1))$

 $\omega \equiv ANGLE - \psi_1 - \psi_2$

 $s \equiv ANGLE \times \rho_b$

 $+ p_{z1} \sin \omega + p_{x1} \cos \omega - \frac{x_1}{\alpha_b \sin \omega}$

where $\rho_0 \equiv \frac{L'}{\text{ANGLE}}$,