$$r^*_{bm} = \frac{r^*_{oc}}{c_{21}} \sqrt{\left(\alpha_{oc} + \beta r^{*2}_{oc}\right)^2 + \left(\frac{\Omega}{f} + \delta r^{*2}_{oc}\right)^2}$$

$$\sin(\psi^*_{oc}) = \frac{r^*_{oc}\left(\frac{\Omega}{f} + \delta r^{*2}_{oc}\right)}{c_{21} r^*_{bm}}$$

$$\cos(\psi^*_{oc}) = \sqrt{1 - \left(\sin(\psi^*_{oc})\right)^2}$$

$$F = \sqrt{\left(\alpha_{bm} r^*_{bm} + c_{12} r^*_{oc} \cos(\psi^*_{oc})\right)^2 + \left(\frac{\Omega}{f} r^*_{bm} + c_{12} r^*_{oc} \sin(\psi^*_{oc})\right)^2}$$