

axis 3 nearly vertical



$\theta = \beta$, β is small, ϕ is small

Neglecting 2nd power.

$$\sin \alpha \beta, \cos \alpha \beta$$

$$\Rightarrow \phi \cos \theta + \psi = \text{const}$$

$$\Rightarrow (A+R^2M)\beta + (C+R^2M)\phi = 2 = \text{const}$$

$$+ M\beta R = 0$$

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