

J. R. Holton

PROBLEM SOLUTIONS

- 1.1 Neglecting the latitudinal variation in the radius of the earth, calculate the angle between the gravitational force and gravity vectors at the surface of the earth as a function of latitude.

Solution: Let ϕ be latitude and α the angle between \underline{g}^* and \underline{g} . Then from the law of sines:

$$\frac{|\underline{g}|}{\sin \phi} = \frac{\Omega^2 R}{\sin \alpha}. \quad \text{But } |R| = a \cos \phi.$$

$$\therefore \sin \alpha = \alpha = \Omega^2 a \sin \phi \frac{\cos \phi}{|\underline{g}|} = \frac{\Omega^2 a \sin 2\phi}{2g}.$$

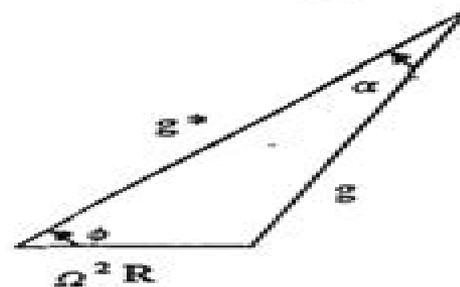


Fig. 1.1

- 1.2 Calculate the altitude at which an artificial satellite orbiting in the equatorial plane can be a synchronous satellite (i.e. can remain above the same spot on the surface of the earth).

Solution: From (1.7) $\underline{g}^* + \Omega^2 \underline{R} = 0$, but $\underline{g}^* = -\left(\frac{GM}{r^2}\right)(\underline{r}/r)$ and $\underline{R} = \underline{r}$ for $\phi = 0$.

$$\therefore \Omega^2 r = \frac{gM}{r^2} = \left(\frac{GM}{\Omega^2}\right)^{1/3} = 42,2000 \text{ km. } z = r - a = 36,000 \text{ km.}$$

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