

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  $\phi$  be latitude and  $\alpha$  the angle between  $g^*$  and  $g$ . Then from the law of sines:

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

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

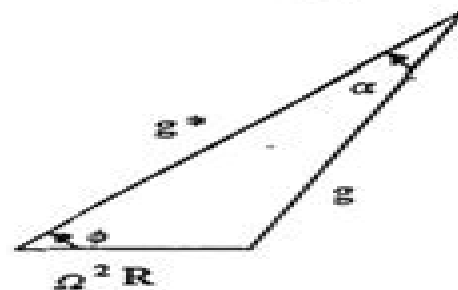


Fig. 1.1

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

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

# Introduction Dynamic Meteorology Holton Solution Manual

**Sebastian Brünink**



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