

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  $\underline{g}^*$  and  $\underline{g}$ . Then from the law of sines:

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

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

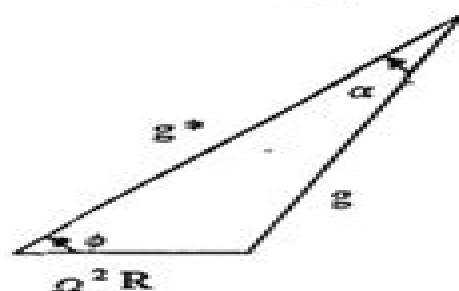


Fig. 1.1

- 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  $\phi = 0$ .

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

# Dynamic Meteorology Solution Manual

**United States. Interdepartmental  
Committee for Atmospheric Sciences**



## **Dynamic Meteorology Solution Manual:**

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1959 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December *Manual of Meteorology* Napier Shaw, 1919 *MANUAL OF METEOROLOGY* SIR NAPIER SHAW SC. D., F.R.S., 1919 *Mid-Latitude Atmospheric Dynamics* Jonathan E. Martin, 2013-05-23 This exciting text provides a mathematically rigorous yet accessible textbook that is primarily aimed at atmospheric science majors Its accessibility is due to the text's emphasis on conceptual understanding The first five chapters constitute a companion text to introductory courses covering the dynamics of the mid latitude atmosphere The final four chapters constitute a more advanced course and provide insights into the diagnostic power of the quasi geostrophic approximation of the equations outlined in the previous chapters the meso scale dynamics of the frontal zone the alternative PV perspective for cyclone interpretation and the dynamics of the life cycle of mid latitude cyclones Written in a clear and accessible style Features real weather examples and global case studies Each chapter sets out clear learning objectives and tests students knowledge with concluding questions and answers A Solutions Manual is also available for this textbook on the Instructor Companion Site [www.wiley-europe.com/college/martin](http://www.wiley-europe.com/college/martin) a student friendly yet rigorous textbook that accomplishes what no other textbook has done before I highly recommend this textbook For instructors this is a great book if they don't have their own class notes one can teach straight from the book And for students this is a great book if they don't take good class notes one can learn straight from the book This is a rare attribute of advanced textbooks Bulletin of the American Meteorological Society BAMS 2008 **Atmospheric Chemistry and Physics** John H. Seinfeld, Spyros N. Pandis, 2016-04-04 Expanded and updated with new findings and new features New chapter on Global Climate providing a self contained treatment of climate forcing feedbacks and climate sensitivity New chapter on Atmospheric Organic Aerosols and new treatment of the statistical method of Positive Matrix Factorization Updated treatments of physical meteorology atmospheric nucleation aerosol cloud relationships chemistry of biogenic hydrocarbons Each topic developed from the fundamental science to the point of application to real world problems New problems at an introductory level to aid in classroom teaching *Dynamic Meteorology* Vasilii Alekseevich Belinskiĭ, 1948 *An Introduction to Dynamic Meteorology* James R. Holton, Gregory J. Hakim, 2013 During the past decade the science of dynamic meteorology has continued its rapid advance The scope of dynamic meteorology has broadened considerably Much of the material is based on a two term course for seniors majoring in atmospheric sciences This book presents a cogent explanation of the fundamentals of meteorology and explains storm dynamics for weather oriented meteorologists It discusses climate dynamics and the implications posed for global change The new edition has added a companion website with MATLAB exercises and updated treatments of several key topics Provides clear physical explanations of key dynamical principles Contains a wealth of illustrations to elucidate text and equations plus end of chapter problems Holton is one of the leading authorities in contemporary meteorology and well

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