

Mid-Latitude Atmospheric Dynamics

A FIRST COURSE

Jonathan E. Martin

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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. 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

Fluid Dynamics of the Mid-Latitude Atmosphere Brian J. Hoskins, Ian N. James, 2014-11-17 This book gives a coherent development of the current understanding of the fluid dynamics of the middle latitude atmosphere. It is primarily aimed at post graduate and advanced undergraduate level students and does not assume any previous knowledge of fluid mechanics, meteorology or atmospheric science. The book will be an invaluable resource for any quantitative atmospheric scientist who wishes to increase their understanding of the subject. The importance of the rotation of the Earth and the stable stratification of its atmosphere with their implications for the balance of larger scale flows is highlighted throughout. Clearly structured throughout. The first of three themes deals with the development of the basic equations for an atmosphere on a rotating spherical planet and discusses scale analyses of these equations. The second theme explores the importance of rotation and introduces vorticity and potential vorticity as well as turbulence. In the third theme, the concepts developed in the first two themes are used to give an understanding of balanced motion in real atmospheric phenomena. It starts with quasi geostrophic theory and moves on to linear and nonlinear theories for mid latitude weather systems and their fronts. The potential vorticity perspective on weather systems is highlighted with a discussion of the Rossby wave propagation and potential vorticity mixing covered in the final chapter.

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