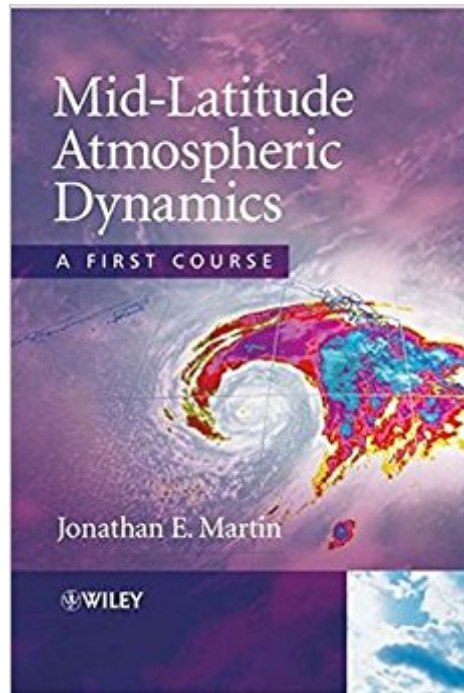




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# **Mid-Latitude Atmospheric Dynamics: A First Course**



## Synopsis

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

## Book Information

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## Customer Reviews

"A student-friendly yet rigorous textbook that accomplishes what no other textbook has done before. I highly recommend this textbook." (Bulletin of the American Meteorological Society) "... I have

personally used Mid-Latitude Atmospheric Dynamics and found it to be a welcome addition to my reading lists." (Area, 2007)

Mid-Latitude Atmospheric Dynamics: A First Course provides an introduction to the physical and mathematical description of mid-latitude atmospheric dynamics and its application to the diagnosis of extratropical cyclones. Requiring a background in physics and calculus but no prior knowledge of meteorology, this student-friendly text places the emphasis on conceptual understanding. Written in a conversation tone, this text is an ideal companion for a first course on the subject, delving into greater depth as the book, and the student, progresses. Real weather examples are woven through the more mathematically focused early chapters, while later chapters introduce a range of case-studies from the around the globe to illustrate theoretical and phenomenological aspects of the mid-latitude cyclone life cycle. features end of chapter bibliography and problems takes a conceptual building block approach includes numerous real weather examples from around the globe

nice

This book is a great resource for understanding meteorological dynamics, but it sometimes skips steps while giving mathematical proofs, which can make it much more difficult for the reader to understand why it's true.

I'm an applied mathematics undergraduate with a strong interest in atmosphere-ocean dynamics, and out of all of the books on this topic that I've been through, this is by far the best in terms of clarity and exposition. Dr. Martin provides great physical explanations/interpretations of the mathematics and his discussions are very insightful. I HIGHLY recommend this book. It is great for self-teaching, as I have done, or perhaps for a one or two-semester class.

Graphics are blurry. Kindle version is useless!

OK

I purchased this book to supplement my required Holton book. This book does a much better job of explaining what dynamics are happening rather than throwing endless formulae at you and not

explaining them well.

This is the best synoptic textbook I have found. It has excellent schematics of atmospheric dynamic that are clearly and concisely. It also doesn't cheat on the math--it gives clear derivations with explanations. It also avoid unnecessary details. Great!

I highly recommend the book but do not waste your money on the Kindle (Mac) version. I have the hardcopy (and Holton's more complicated version) but got tired of carrying it around. I thought I would try Kindle for the first time and download to my new Ipad. The cost is about the same as the paperback but the quality is not even close, and the graphics are key to understanding the material. , what happened?? You probably lost a Kindle textbook customer here as that was a fair chunk of change for a majorly disappointing product.

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