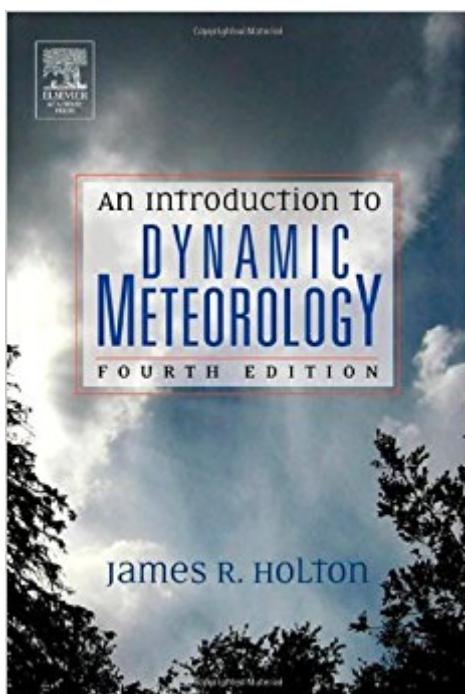


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An Introduction To Dynamic Meteorology, Volume 88, Fourth Edition (International Geophysics)



Synopsis

An Introduction to Dynamic Meteorology, Fourth Edition presents a cogent explanation of the fundamentals of meteorology, and explains storm dynamics for weather-oriented meteorologists. This revised edition features updated treatments on climate dynamics, tropical meteorology, middle atmosphere dynamics, and numerical prediction. It contains a wealth of illustrations to elucidate text and equations, plus end-of-chapter problems. This book is recommended for senior and graduate students in meteorology and atmospheric science, as well as atmospheric scientists desiring a broad overview of dynamical meteorology.* 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 known for his clear writing style NEW IN THIS EDITION Updated treatments on climate dynamics, tropical meteorology, middle atmosphere dynamics, and numerical prediction

Book Information

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Customer Reviews

"The book is very clearly and well written...the author succeeds in presenting the fundamentals while providing a motivating discussion on the full scope of dynamic meteorology and its applications."-Jorg Matschullat, Interdisciplinary Environmental Research Center, in ENVIRONMENTAL GEOLOGY, VOL. 49, MARCH 2006Praise for previous edition: "...reflects the full scope of modern dynamic meteorology, while providing a presentation of the fundamentals." BULLETIN AMERICAN METEOROLOGICAL

SOCIETY "The careful presentation of introductory material and clear discussion of dynamical principles make this an excellent basic account of dynamical meteorology." JOURNAL OF FLUID MECHANICS

The new edition of Holton's bestselling textbook, with 18,000+ sales in the current edition!

This book is one of the most important teaching materials for undergraduates and graduates majoring in atmospheric science. But, I suggest that people with little background in physics and math should take time to improve their knowledge of math and physics. Some derivation in this book need the knowledge of elementary calculus. So get familiar with it before using the book

This book is extremely useful for both undergraduate and graduate majoring in Atmospheric Sciences. Book is in total good shape, delivery is also fast. Price is really low. Very satisfying.

Actually this is a textbook, which means I had to buy it. Anyway, it is a classic dynamics textbook. It is not even a bad idea to keep it for future reference. The seller is worth to trust because this book is really like new.

I use data from the major met models on a daily basis. This book gives many of the underlying equations from those models. It also gives the assumptions that are ignored! The simplifications for synoptic scales are ok for a classroom but are fatal in models. Coarse low resolution models drop the physical nature of the atmosphere because of the simplifications. But the results are erroneous. Working to higher resolution and accuracy becomes difficult due to the vague boundaries that are not considered in this book. Good equations but little relationship with working met analysis. Still you have to start somewhere.

The book is little old

Long story short... trying to read this book has made me realize that I do not want to pursue meteorology.

very good! just like new! The print quality of this book is very good, it feels so smooth when you touch it

This book, in my opinion, is the most valuable book on dynamical aspects of the atmosphere insofar, especially from pedagogical point of views. As a foreign student, I understand well Holton's writings. Simple but very concise sentences, no wordy explanations. The first 3 chapters provide you the basic equations used in meteorology and their common approximations. The next 5 chapters, to me, are the most interesting chapters. They give you wide range of knowledge from boundary layer, synoptic scale phenomena, to instabilities. Equations are of great usefulness because THEY bring into the light physical contents of the dynamics of the atmosphere. To me, any analytical equation and its explicit solution provide us a more complete understanding than numerical models do (because you never know some unpredictable behaviour of numerical solutions). So, try to understand carefully the simplest cases that Holton selected. This gives you a lot of deeper understandings. Chapters 9 to 11 provide the dynamics of meso- to large-scale circulations. You will see why the Hadley circulation descends around 35N in very clear way. However, simple Poisson eqn with the argument of "positive forcing, negative solution" that is applied throughout the text should be paid especial attention because this conclusion is not always true. As a whole, the contents, explanations and derivations will be very well constructed if you see the main point of each section. To get to the heart of this book, read and derive all the skips in Holton's derivations. The gaps are not too hard to fill out in math but require some thinking. DO ALL OF THE EXERCISES at the end by yourself and you will double your knowledge. For any math-related physical book, transparent derivations are the first thing you should figure out, physical explanations will follow subsequently. From my experience, people tend to skip any chapter what they thought they knew it already. If you apply this method here, you may be in trouble. Read carefully the first 5 chapters, understand approximations used in the each situation. Simply apply equations without judgments of their assumptions will take you into the nightmare. I give this book 5 stars +. It is really classic....

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