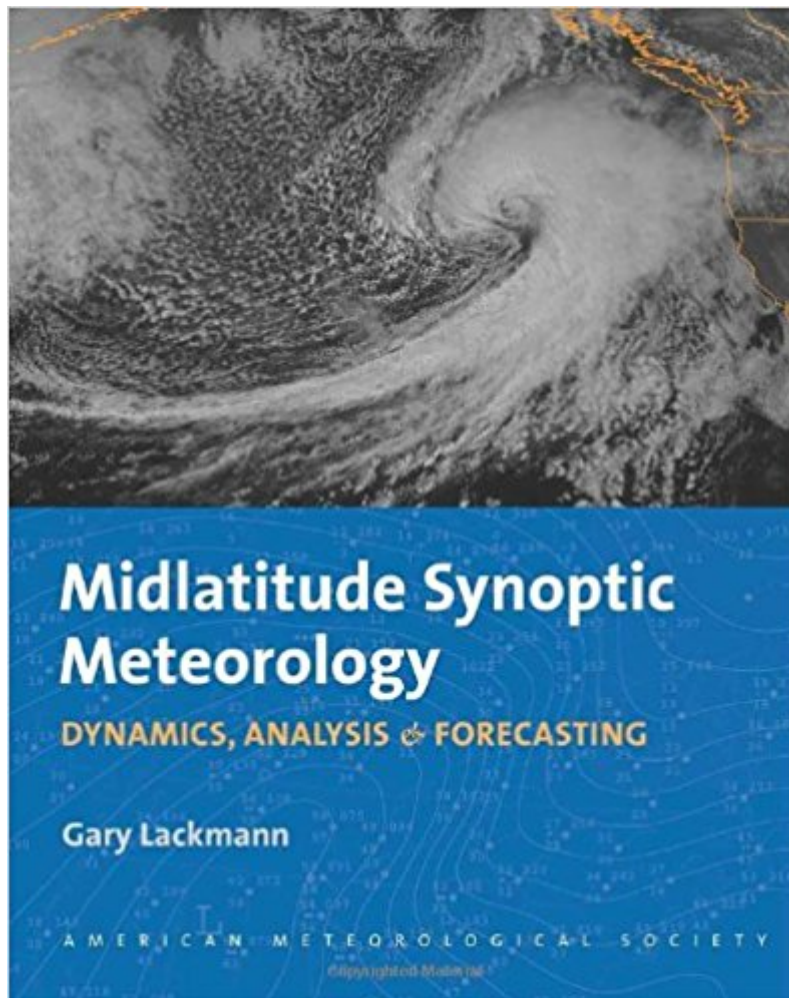




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Midlatitude Synoptic Meteorology: Dynamics, Analysis, And Forecasting



Synopsis

The past decade has been characterized by remarkable advances in meteorological observation, computing techniques, and data-visualization technology. However, the benefit of these advances can only be fully realized with the introduction of a systematic, applied approach to meteorological education that allows well-established theoretical concepts to be applied to modernized observational and numerical datasets. This textbook links theoretical concepts to modern technology and facilitates the meaningful application of concepts, theories, and techniques using real data. As such, it will both serve those planning careers in meteorological research and weather prediction, and provide a template for the application of modern technology in a classroom and laboratory setting. Synoptic-dynamic meteorology, synoptically driven mesoscale phenomena, weather forecasting, and numerical weather prediction are covered in depth in this text, which is intended for undergraduates and beginning graduate students in the atmospheric sciences.

Book Information

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“An excellent synthesis of modern midlatitude synoptic-dynamic meteorology that will serve advanced undergraduate and graduate atmospheric science students as well as working scientists and forecasters very well.” • (Lance Bosart, University at Albany, State University of New York) “Lackmann fulfills a desperate need among today’s students and teachers. No book has more approached Rossby’s vision of a bridge across the gap between theory and observation than Midlatitude Synoptic Meteorology.” • (Dave Schultz, University of Manchester) “Lackmann has given students of meteorology the gift of an outstanding, up-to-date

textbook on weather analysis and forecasting. He combines the building blocks of theory with modern observations and modeling to provide an exceptionally clear understanding of the workings of our atmosphere.â • (Steven Businger, University of Hawaii)

Gary Lackmann is a professor of atmospheric sciences in the Department of Marine, Earth, and Atmospheric Sciences at North Carolina State University.

For years I was searching for a meteorology text which would explain in simple terms the mathematical aspects of synoptic meteorology in terms that I could understand. This book has really helped me understand the mathematics behind the dynamics and forecasting that I have been using for 20 years.

Excellent book. Very applicable to synoptic scale forecasting. Excellent treatment of dynamics. I am not sure why the author ordered the chapters the way he did - - I might suggest a couple other different ways to structure the material, which prevents it from being 5 stars, but it is still a good text.

A must-read for Synoptic.

This is a great textbook! Clear diction that is precise but avoids unnecessary jargon. I love that it's paperback, since it's still high quality but saves some money.

Easy to understand. Precise. Great addition to the library of a graduate student. I and some of my friends highly recommend it.

As described and expected.

It was very helpful.

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