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The second edition of this concise,
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affordable textbook is ideal for curious undergraduate majors and non-majors taking a first course in meteorology.

The first two chapters introduce readers to the main concepts and tools used to analyze weather patterns.

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processes taking place in the atmosphere, and in Chapters 9-12 these physical concepts are applied to specific weather phenomena. Weather concepts are then used in Chapters 13-15 to explain weather forecasting, air pollution, and the impact of climate change on weather. Key concepts are

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illustrated through a running case study of a single mid-latitude cyclone, providing students with an opportunity to progressively develop their understanding of weather phenomena with a familiar example approached from multiple perspectives. This edition includes expanded and

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students can do about the
problems ABOUT THE AUTHOR
Dr. Sharon La Bonde Hanks
teaches biology at William
Paterson College in New Jersey.
She holds a Ph.D. from Rutgers
University. Her 33 years in

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teaching have concentrated on biology and environmental science, with research focused on ecology, taxonomy and systematic palynology. She has a special interest in writing about the discipline, assessment and

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race/gender issues in science.

Hanks is the author of a major text on how to teach biology using the process approach. In addition, she runs workshops and is a consultant, an expert perennial gardener and

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naturalized landscaper, and an avid student of Tai Chi. She is most proud of her memberships in the New Jersey Audubon Weis Ecology Center, Habitat for Humanity, and the Nature Conservancy.

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structure, design of simple models, atmospheric transport, and the continuity equation, and continues with geochemical cycles, the greenhouse effect, aerosols, stratospheric ozone, the oxidizing power of the atmosphere, smog, and acid rain. Each chapter concludes with a problem set based

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