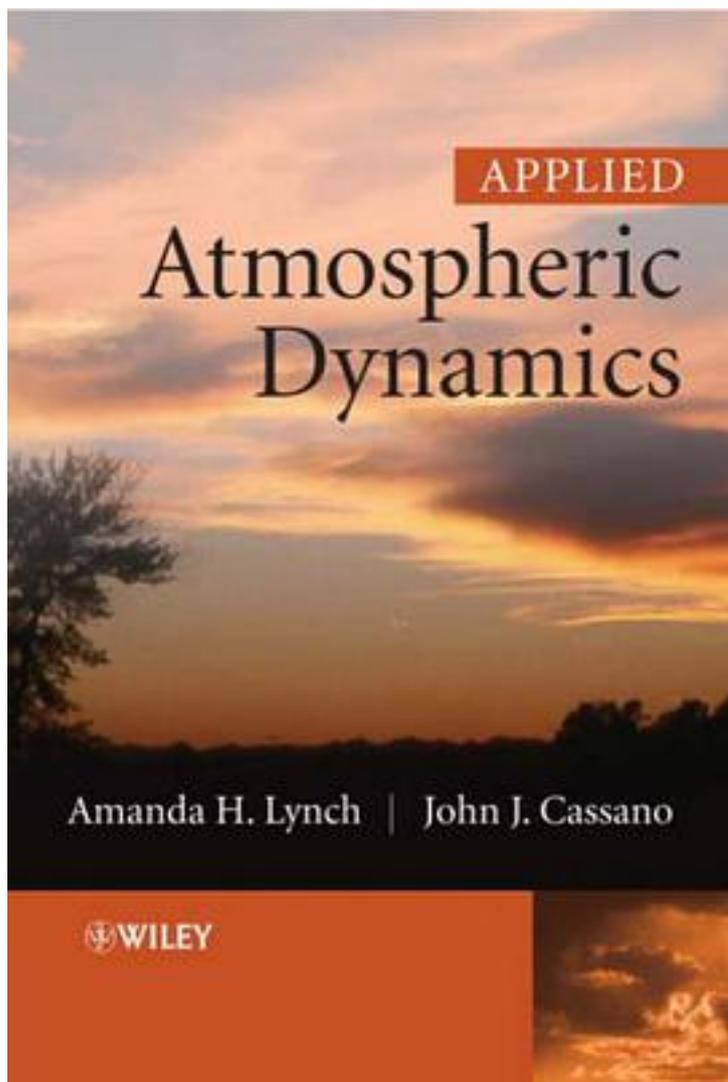


Applied Atmospheric Dynamics



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The weather can be a cause of disruption, despair and even danger everywhere around the world at one time or another. Even when benign it is a source of constant fascination. Applied Atmospheric Dynamics connects this interest with the theoretical underpinnings of fluid dynamics; linking real physical events as diverse as Hurricane Katrina and the strong katabatic winds of Antarctica, with quantitative conceptual models of atmospheric behaviour.

Assuming only basic calculus the book provides a physical basis for understanding atmospheric motions around the globe as well as detailing the advances that have led to a greater understanding of weather and climate.

The accompanying supplementary CD-ROM features colour graphics, maps, databases, animations, project materials, as well as weather data tips. Covers the standard theoretical principles of atmospheric dynamics and applies the theory to global real world examples Assumes only non-vector based calculus Features supplementary CD-ROM with electronic versions of all figures, case study data and possible term projects An invaluable text for students of Meteorology, Atmospheric Science, Geography and Environmental Science A Solutions Manual is also available for this textbook on the Instructor Companion Site www.wileyurope.com/college/lynch

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