

Amanda H. Lynch | John J. Cassano



Applied Atmospheric Dynamics

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Anastassiou, Dumitru
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Applied Atmospheric Dynamics Amanda H. Lynch, John J. Cassano, 2006-07-11 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 wileyeurope com college lynch Atmospheric Dynamics Mankin Mak, 2011-02-24 Mankin Mak s textbook provides a self contained course on atmospheric dynamics The first half is suitable for senior undergraduates and develops the physical dynamical and mathematical concepts at the fundamental level The second half of the book is aimed at more advanced students who are already familiar with the basics The contents have been developed from many years of the author's teaching at the University of Illinois Discussions are supplemented with schematics weather maps and statistical plots of the atmospheric general circulation Students often find the connection between theoretical dynamics and atmospheric observation somewhat tenuous and this book demonstrates a strong connection between the key dynamics and real observations This textbook is an invaluable asset for courses in atmospheric dynamics for advanced students and researchers in atmospheric science ocean science weather forecasting environmental science and applied mathematics Some background in mathematics physics and basic atmospheric science is assumed

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