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Houze, Jr. As models of the Earth/atmosphere system and
observations become ever more sophisticated, and concerns

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about climate change and societal impacts of extreme weather and its forecasting grow, understanding the role of clouds in the atmosphere is increasingly vital.

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This book focuses on the dynamics of clouds and of precipitating mesoscale meteorological systems. Clouds and precipitating mesoscale systems represent some of the most important and scientifically exciting weather systems in the world. These are the systems that produce torrential rains, severe winds including downburst and tornadoes, hail, thunder and lightning, and major snow storms. Forecasting

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such storms represents a major challenge since they are too small to be adequately resolved by conventional observing networks and numerical prediction models. * Provides a complete treatment of clouds integrating the analysis of air motions with cloud structure, microphysics, and precipitation mechanics * Describes and explains the basic types of clouds and cloud systems that occur in the atmosphere-fog, stratus, stratocumulus, altocumulus, altostratus, cirrus, thunderstorms, tornadoes, waterspouts, orographically induced clouds, mesoscale convection complexes, hurricanes, fronts, and extratropical cyclones * Summarizes the fundamentals, both observational and theoretical, of atmospheric dynamics, thermodynamics, cloud microphysics, and radar meteorology, allowing each type of cloud to be

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examined in depth * Integrates the latest field observations, numerical model simulations, and theory * Supplies a theoretical treatment suitable for the advanced undergraduate or graduate level, as well as post-graduate "

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systems that occur in the atmosphere-fog, stratus, stratocumulus, altocumulus, altostratus, cirrus, thunderstorms, tornadoes, waterspouts, orographically induced clouds, mesoscale convection complexes, hurricanes, fronts, and extratropical cyclones * Presents a photographic guide, presented in the first chapter, linking the examination of each type of cloud with an image to enhance visual retention and understanding * Summarizes the fundamentals, both observational and theoretical, of atmospheric dynamics, thermodynamics, cloud microphysics, and radar meteorology, allowing each type of cloud to be examined in depth * Integrates the latest field observations, numerical model simulations, and theory * Supplies a theoretical treatment suitable for the advanced undergraduate

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or graduate level

Clouds play a critical role in the Earth's climate, general atmospheric circulation, and global water balance. Clouds are essential elements in mesoscale meteorology, atmospheric chemistry, air pollution, atmospheric radiation, and weather forecasting, and thus must be understood by any student or researcher in the atmospheric sciences. *Cloud Dynamics* provides a skillful and comprehensive examination of the nature of clouds--what they look like and why, how scientists observe them, and the basic dynamics and physics that underlie them. The book describes the mechanics governing each type of cloud that occurs in Earth's atmosphere, and the organization of various types of clouds in larger weather

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systems such as fronts, thunderstorms, and hurricanes. This book is aimed specifically at graduate students, advanced undergraduates, practicing researchers either already in atmospheric science or moving in from a related scientific field, and operational meteorologists. Some prior knowledge of atmospheric dynamics and physics is helpful, but a thorough overview of the necessary prerequisites is supplied. Provides a complete treatment of clouds integrating the analysis of air motions with cloud structure, microphysics, and precipitation mechanics Describes and explains the basic types of clouds and cloud systems that occur in the atmosphere-fog, stratus, stratocumulus, altocumulus, altostratus, cirrus, thunderstorms, tornadoes, waterspouts, orographically induced clouds, mesoscale convection

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complexes, hurricanes, fronts, and extratropical cyclones
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During recent decades a new field of study in atmospheric science has made its appearance - the dynamics of clouds.

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As the name implies, the subject matter of cloud dynamics includes the causes of cloud formation and the temporal development of clouds. At first, effort was concentrated mainly on devising models of the structure and development of convective clouds, and thus there exists considerable literature on this [9, 69, 88, 330, 411]. Although convective clouds are of great significance (thunder storm formation and very intense turbulence are associated with these clouds), they are observed much less frequently than other cloud types. For instance, the frequency of occurrence of strati form (frontal) clouds and wave clouds over the U.S.S.R. and Western Europe is more than 90% [2-4]. During the last 20 or 30 years there has been considerable success in studying the dynamics of stratiform clouds. Fundamental laws (equations)

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describing the formation, development, and dissipation of these clouds (and also of fog) have been formulated, and also laws describing the formation of humidity and temperature fields in a turbulent medium. Hydrodynamic models of clouds and fog constructed on the basis of these equations have made it possible to formulate the fundamental regularities in the formation and evolution of large-scale cloud fields, and also to ascertain the structural features of clouds of various kinds. These topics are covered in Chapters 1-4 of this monograph.

This book presents the views of leading scientists on the knowledge of the global ocean circulation following the completion of the observational phase of the World Ocean

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Circulation Experiment. WOCE's in situ physical and chemical measurements together with satellite altimetry have produced a data set which provides for development of ocean and coupled ocean-atmosphere circulation models used for understanding ocean and climate variability and projecting climate change. This book guides the reader through the analysis, interpretation, modelling and synthesis of this data.

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Millennium will serve as a point of reference for students and researchers of meteorology and climatology for many years to come. The areas covered include weather prediction at the millennium, climate variability and change, atmosphere-ocean coupling, the biogeochemical system, weather on other planets. This book is a compilation of the best invited papers presented at a conference celebrating the 150 years of the Royal Meteorological Society (RMS).

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Atmospheric ice particles play crucial roles in cloud and storm dynamics, atmospheric chemistry, climatological processes, and other atmospheric processes. Ice Microdynamics introduces the elementary physics and dynamics of atmospheric ice particles in clouds; subsequent sections explain their formation from water vapor, why ice crystal shape and concentration in cirrus clouds influence the heating of air, and describe how ice crystals cleanse the atmosphere by scavenging aerosol particles. Pao Wang's

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lucid writing style will appeal to atmospheric scientists, climatologists, and meteorologists with an interest in understanding the role of ice particles in the atmosphere of our planet.

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