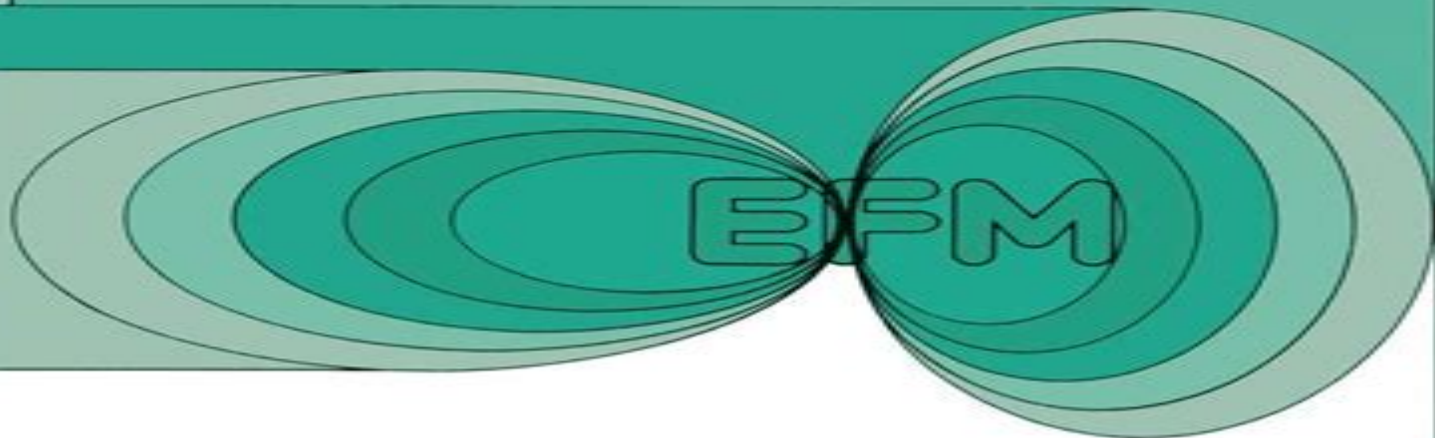


Evaporation into the Atmosphere

Theory, History, and Applications

Wilfried Brutsaert

Springer-Science+Business Media, B.V.



Evaporation Into The Atmosphere Theory History And Applications Environmental Fluid Mechanics

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The phenomenon of evaporation in the natural environment is of interest in various diverse disciplines This book is an attempt to present a coherent and organized introduction to theoretical concepts and relationships useful in analyzing this phenomenon and to give an outline of their history and their application The main objective is to provide a better understanding of evaporation and to connect some of the approaches and paradigms that have been developed in different disciplines concerned with this phenomenon The book is intended for professional scientists and engineers who are active in hydrology meteorology agronomy oceanography climatology and related environmental fields and who wish to study prevailing concepts on evaporation At the same time I hope that the book will be useful to workers in fluid dynamics who want to become acquainted with applications to an important and interesting natural phenomenon As suggested in its subtitle the book consists of three major parts The first consisting of Chapters I and 2 gives a general outline of the problem and a history of the theories of evaporation from ancient times through the end of the nineteenth century This history is far from exhaustive but it sketches the background and the ideas that led directly to the scientific revolution in Europe and ultimately to our present day knowledge

Circulation in the Coastal Ocean G.T. Csanady, 2013-03-14 For some time there has existed an extensive theoretical literature relating to tides on continental shelves and also to the behavior of estuaries Much less attention was traditionally paid to the dynamics of longer term larger scale motions those which are usually described as circulation over continental shelves or in enclosed shallow seas such as the North American Great Lakes This is no longer the case spurred on by other disciplines notably biological oceanography and by public concern with the environment the physical science of the coastal ocean has made giant strides during the last two decades or so Today it is probably fair to say that coastal ocean physics has come of age as a deductive quantitative science A well developed body of theoretical models exist based on the equations of fluid motion which have been related to observed currents sea level variations water properties etc Quantitative parameters required in using the models to predict e.g. the effects of wind or of freshwater influx on coastal currents can be estimated within reasonable bounds of error While much remains to be learned and many exciting discoveries presumably await us in the future the time seems appropriate to summarize those aspects of coastal ocean dynamics relevant to circulation or long term motion

Energy, Water, and Carbon Dioxide Fluxes at the Earth's Surface Meghan F. Cronin, Carol Anne Clayson, Simon Josey, Petra Heil, Masao Ishii, 2022-10-03 *New Technical Books* New York Public Library, 1982

Ecological Climatology Gordon B. Bonan, 2008-09-18 This book introduces an interdisciplinary framework to understand the interaction between terrestrial ecosystems and climate change It reviews basic meteorological hydrological and ecological concepts to examine the physical chemical and biological processes by

which terrestrial ecosystems affect and are affected by climate The textbook is written for advanced undergraduate and graduate students studying ecology environmental science atmospheric science and geography The central argument is that terrestrial ecosystems become important determinants of climate through their cycling of energy water chemical elements and trace gases This coupling between climate and vegetation is explored at spatial scales from plant cells to global vegetation geography and at timescales of near instantaneous to millennia The text also considers how human alterations to land become important for climate change This restructured edition with updated science and references chapter summaries and review questions and over 400 illustrations including many in colour serves as an essential student guide

Journal of Meteorology ,1982 **The Meteorological Magazine** ,1984 **Beiträge Zur Physik Der Atmosphäre** ,1981

Pollutants in a Multimedia Environment Yoram Cohen,2012-12-06 Pollutants released to the environment are distributed among the many environmental media such as air water soil and vegetation as the result of complex physical chemical and biological processes The possible environmental impact associated with chemical pollutants is related to their concentration levels and persistence in the various environmental compartments Therefore information regarding the migration of pollutants across environmental phase boundaries eg air water soil water and their accumulation in the environment is essential if we are to assess the potential environmental impact and the associated risks In recent years it has become apparent that environmental pollution is a multimedia problem Risk assessment and the design of appropriate pollution control measures require that we carefully consider the transport and accumulation of pollutants in the environment We are now recognizing that the environment must be considered as a whole and the scientific and regulatory approaches must consider the interactions of environmental media It is also becoming apparent that single medium approaches are partial and often counter productive On the other hand any multimedia program must carefully consider the rate of each environmental medium in the overall multimedia scheme

Beiträge zur Physik der freien Atmosphäre ,1982 **Hydrology** Wilfried Brutsaert,2005-08-11 Water in its different forms has always been a source of wonder curiosity and practical concern for humans everywhere Hydrology An Introduction presents a coherent introduction to the fundamental principles of hydrology based on the course that Wilfried Brutsaert has taught at Cornell University for the last thirty years Hydrologic phenomena are dealt with at spatial and temporal scales at which they occur in nature The physics and mathematics necessary to describe these phenomena are introduced and developed and readers will require a working knowledge of calculus and basic fluid mechanics The book will be invaluable as a textbook for entry level courses in hydrology directed at advanced seniors and graduate students in physical science and engineering In addition the book will be more broadly of interest to professional scientists and engineers in hydrology environmental science meteorology agronomy geology climatology oceanology glaciology and other earth sciences

Choice ,1981 American Book Publishing Record ,1983-04

Current Geographical Publications University of Wisconsin--Milwaukee. Library,1983 Current Geographical

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KÖMÜŞCÜ,2025-01-09

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