



# The Upper Atmosphere

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By Dieminger, Walter / Hartmann, Gerd K.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Data Analysis and Interpretation | Especially due to the increasing environmental problems there is a need to collect as many data as possible in the upper atmosphere. This book serves as a general multidisciplinary guide and introduction for a more effective use of the large amount of now available data from the Earth's atmosphere. It also shows the problems of the use of large amounts of time series data - for basic science as well as for environmental monitoring - and the related information systems. The book is aimed for scientists and students interested in the Earth's atmosphere which is vital for the understanding of environmental changes in the global system Earth. | I Physics of the Upper Atmosphere.- I.1 Introduction to the Earth's Atmosphere.- I.2 Dynamics of the Atmosphere.- I.2.1 Stationarity and Instationarity.- I.2.2 Small-Scale Dynamics of the Upper Atmosphere: Experimental Studies of Gravity Waves and Turbulence.- I.3 Atmospheric Tides.- I.4 Chemistry in the Atmosphere.- I.5 H<sub>2</sub>O in the Atmosphere.- I.6 Pollution of the Upper Atmosphere.- I.7 Transatmospheric Propagation of Radio Waves: The Role of the Atmosphere in Communication, Navigation, Geodesy etc.- I.8 Atmosphere as a Part of the Biosphere.- I.9 Legal...



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