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2. Record Nr.	UNINA9910484406703321
Autore	Spiridonov Vlado
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Nota di contenuto

Chapter 1 Introduction -- Chapter 2-Meteorology as the science -- Chapter 3-Historical background -- Chapter 4-Atmospheric structure and composition -- Chapter 5-Energy and radiation -- Chapter 6-The basics of atmospheric thermodynamics. Chapter 7-Air temperature -- Chapter 8-Atmospheric static -- Chapter 9-Atmospheric moisture -- Chapter 10-Clouds and precipitation -- Chapter 11-Air pressure and wind -- Chapter 12-Atmospheric motion -- Chapter 13-Atmospheric waves -- Chapter 14-Planetary boundary layer -- Chapter 15-General atmospheric circulation -- Chapter 16-Air masses and fronts -- Chapter 17-Cyclones and anticyclones -- Chapter 18-Tropical cyclones -- Chapter 19-Thunderstorms and tornadoes -- Chapter 20-Meteorological hazards -- Chapter 21-Atmospheric optical phenomena -- Chapter 22-Atmospheric chemistry -- Chapter 23-Weather forecast -- Chapter 24-Climate system and climate change -- Chapter 25-Earth and planetary observation and monitoring.

Sommario/riassunto

This book is dedicated to the atmosphere of our planet, and discusses historical and contemporary achievements in meteorological science and technology for the betterment of society. The book explores many significant atmospheric phenomena and physical processes from the local to global scale, as well as from the perspective of short and long-term time scales, and links these processes to various applications in other scientific disciplines with linkages to meteorology. In addition to addressing general topics such as climate system dynamics and climate change, the book also discusses atmospheric boundary layer, atmospheric waves, atmospheric chemistry, optics/photometers, electricity, atmospheric modeling and numeric weather prediction. Through its interdisciplinary approach, the book will be of interest to researchers, students and academics in meteorology and atmospheric science, environmental physics, climate change dynamics, air pollution and human health impacts of atmospheric aerosols. .
