Meteorology

Meteorology is a branch of the atmospheric sciences which includes atmospheric chemistry and atmospheric physics, with a focus on weather forecasting.

- **Book: Fundamentals of Atmospheric Science (Brune)**

This text prepares students by laying a solid foundation in the application of physical, chemical, and mathematical principles to a broad range of atmospheric phenomena. Students are introduced to fundamental concepts and applications of atmospheric thermodynamics, radiative transfer, atmospheric chemistry, cloud microphysics, atmospheric dynamics, and the atmospheric boundary layer.

- Front Matter
- 1: Getting Started
- 2: Thermodynamics
- 3: Moist Processes
- 4: Atmospheric Composition
This book is an algebra-based survey of atmospheric science. This book is designed for students and professionals who want to understand and apply basic meteorological concepts, but who do not need to derive equations. The equation and could serve the fields of Atmospheric Science, Meteorology, Environmental Science, Engineering, Air Quality, Climatology, and Geography. The text involve primarily algebra to allow the physical meaning.
14: Thunderstorm Fundamentals
- 15: Thunderstorm Hazards
- 16: Tropical Cyclones
- 17: Regional Winds
- 18: Atmospheric Boundary Layer
- 19: Pollutant Dispersion
- 20: Numerical Weather Prediction (NWP)
- 21: Natural Climate Processes
- 22: Atmospheric Optics
- Back Matter