



Chemistry of the Natural Atmosphere, Volume 71, Second Edition (International Geophysics)

Peter Warneck

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Knowledge of the chemical behavior of trace compounds in the atmosphere has grown steadily, and sometimes even spectacularly, in recent decades. These developments have led to the emergence of atmospheric chemistry as a new branch of science. This book covers all aspects of atmospheric chemistry on a global scale, integrating information from chemistry and geochemistry, physics, and biology to provide a unified account. For each atmospheric constituent of interest, the text summarizes the principal observations on global distribution, chemical reactions, natural and anthropogenic sources, and physical removal processes. Coverage includes processes in the gas phase, in aerosols and clouds, and in precipitation, as well as biogeochemical cycles and the evolution of the atmosphere. **Chemistry of the Natural Atmosphere**, **Second Edition**, will serve as a textbook for senior undergraduate and graduate courses, and as an essential reference for atmospheric chemists, meteorologists, and anyone studying the biogeochemical cycles of trace gases.

- * Updated extensively from the highly respected first edition
- * Treats the global-scale chemistry and distribution of atmospheric trace constituents
- * Emphasizes observations and their interpretation
- * Provides background on transport and reaction kinetics for interpretation of observational data
- * Includes chemistry in the gas phase and in aerosols and clouds
- * Details chemical reaction pathways for the most important trace constituents
- * Describes pertinent biogeochemical cycles
- * Written by an author with more than 40 years of research experience in atmospheric chemistry



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