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B. ABSORPTION OF LIGHT1. Basic Relationships; 2. The Beer - Lambert Law; C. ATMOSPHERIC PHOTOCHEMISTRY; 1. Solar Radiation and Its Transmission through the Atmosphere; 2. Calculating Photolysis Rates in the Atmosphere; 3. Procedure for Calculating Photolysis Rates; 4. Example: Photolysis of Acetaldehyde at the Earth's Surface; D. PROBLEMS; REFERENCES; Chapter 4. Photochemistry of Important Atmospheric Species; A. MOLECULAR OXYGEN; 1. Absorption Spectra; 2. Photochemistry; B. OZONE; 1. Absorption Spectra; 2. Photochemistry; C. NITROGEN DIOXIDE; 1. Absorption Spectra; 2. Photochemistry
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W. PROBLEMS

Sommario/riassunto

Here is the most comprehensive and up-to-date treatment of one of the hottest areas of chemical research. The treatment of fundamental kinetics and photochemistry will be highly useful to chemistry students and their instructors at the graduate level, as well as postdoctoral fellows entering this new, exciting, and well-funded field with a Ph.D. in a related discipline (e.g., analytical, organic, or physical chemistry, chemical physics, etc.). Chemistry of the Upper and Lower Atmosphere provides postgraduate researchers and teachers with a uniquely detailed, comprehensive, and authorita