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The Kinetics Of Environmental Aquatic Photochemistry (ACS Professional Reference Book)



Synopsis

Now in one source---the theory and practice for determining environmentally relevant rates of photoreaction in aquatic media. Works out all mathematic derivations, step by step. Shows how to select experimental procedures for measuring rates of aqueous photoreaction. Details how to measure rates at very low concentrations. Also describes theory and practice of chemical actinometry. Shows how to measure rates of direct and indirect aqueous photoreaction by outdoor experiments in sunlight and laboratory experiments using monochromatic light. Describes detailed experimental procedures for obtaining requisite kinetic data. Gives comprehensive tables of solar irradiance as a function of latitude and season of the year in the northern hemisphere. Illustrates how to use data from kinetic experiments to estimate rates of direct and indirect photoreaction in aquatic media in the environment.

Book Information

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