

Oxidation of Organic Compounds: Medium Effects in Radical Reactions

N. M. Emanuel, G. E. Zaikov, Z. K. Maizus

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Oxidation of Organic Compounds: Medium Effects in Radical Reactions explores the role of solvents and of the composition of phase states in radical-chain processes involved in the oxidation of organic compounds. Organized into 10 chapters, this book begins with a discussion of the basic concepts relating to the mechanism involved in the oxidation of hydrocarbons and other organic compounds in liquid-phase reactions. Subsequent chapters detail some methods for studying the mechanism of oxidation reactions; role of solvation in chemical reaction kinetics; role of the medium in chain-initiation reactions; role of nonspecific and specific solvation in chain-propagation and chain-termination reactions; and the role of solvation in chain-termination reactions in inhibitors. The influence of the solvent and the phase state of substances undergoing oxidation on the rates and mechanisms of individual elementary processes are also addressed. The last chapter examines the problem of the influence of the solid state of the polymer on the reactivity of radicals.

This monograph will be valuable to scientific research workers, engineers, and engineering technologists specializing in the field of radical reactions and in particular in the oxidation of organic compounds.



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