



# The Oxidation of Hydrocarbons in the Liquid Phase

*N.M. Emanuel*

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## **The Oxidation of Hydrocarbons in the Liquid Phase** N.M. Emanuel

The Oxidation of Hydrocarbons in the Liquid Phase investigates the kinetics and mechanism of the oxidation of hydrocarbons in the liquid phase. Topics covered include the chain reactions taking place in the liquid-phase oxidation of hydrocarbons; the action of inhibitors on degenerately branched chain reactions; and the mechanism of inhibitor action during oxidations with molecular oxygen. The liquid-phase oxidation of some aryl-aliphatic hydrocarbons is also discussed.

This book is comprised of 35 chapters and begins with an analysis of the chain processes taking place during the oxidation of hydrocarbons and how to stimulate slow chain branching reactions. The role of peroxides in the kinetics of liquid-phase oxidation processes is then considered, along with several elementary stages of the liquid-phase oxidation of hydrocarbons. Subsequent chapters explore the relationship between the length of unbranched chains and the concentration of oxidation products accumulating in the reaction mixture on the basis of the theory of degenerate chain branching; the effect of various inhibitors on the autocatalytic oxidation of cycloparaffins; the role of metals during the liquid-phase oxidation of fuels; and the oxidation of aromatic hydrocarbons with oxygen. The final chapter examines the behavior of lubricating oils in internal combustion engines, paying particular attention to the influence of temperature and oxygen on the oxidation of the oil both in bulk and in thin films.

This monograph will appeal to chemists and engineers and those concerned with the establishment of a detailed mechanism of liquid-phase oxidation reactions.

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