



# Oxidation and Antioxidants in Organic Chemistry and Biology

*Evgeny T. Denisov, Igor B. Afanas'ev*

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**Oxidation and Antioxidants in Organic Chemistry and Biology** Evgeny T. Denisov, Igor B. Afanas'ev  
Providing a comprehensive review of reactions of oxidation for different classes of organic compounds and polymers, and biological processes mediated by free radicals, *Oxidation and Antioxidants in Organic Chemistry and Biology* puts the data and bibliographical information you need into one easy-to-use resource. You will find up-to-date information about mechanisms of action of antioxidants, their reactivity, reactions of intermediates, synergism, and antioxidants with cyclic mechanism action. Supplying useful, quantitative data in tables that make the information easy to find, the authors highlight the peculiarities of mechanisms involved in the oxidation of hydrocarbons, polymers, and different organic compounds.

The book provides tabulated values of strengths of C-H bonds of oxygen-containing compounds; of O-H bonds of hydroperoxides, alcohols, and acids; and of attacked antioxidant bonds. The authors collect and discuss over 3000 rate constants of different reactions of peroxy radicals in oxidation and co-oxidation. They describe a new semiempiric theory of reactivity of reactants in elementary oxidative steps and the algorithm of calculation of activation energies, rate constants, and geometrical parameters of the transition states of free radical reactions. After elucidating the chemistry and kinetics of antioxidant action, the book covers oxidative processes that occur in biological systems.

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