



The Porphyrins V5: Physical Chemistry, Part C: 005

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The Porphyrins, Volume V: Physical Chemistry, Part C explores the physical chemistry of porphyrins, their precursors, catabolic derivatives, and related compounds. The book covers photochemical, electrochemical, and routes of electron transfer, as well as primary redox reactions of porphyrins and metalloporphyrins; oxygenation of hemoglobin and the interactions of metalloporphyrins with dioxygen; the kinetics of porphyrin metalation; and solid state phenomena.

This volume is organized into 11 chapters and begins with an overview of electron transfer and the mechanisms of oxidation and reduction. The discussion then turns to porphyrin photochemical reactions and reversible electron transfer reactions of metalloporphyrins. Selected examples in which the oxidized or reduced complexes have been shown to play a biochemical role are provided. The following chapters focus on the isolation and characterization of the photosynthetic pigments and their aggregation and coordination properties, along with those of the porphyrins and metalloporphyrins. The book concludes with an analysis of solid state phenomena in porphyrins and related materials, paying particular attention to semiconduction, photoconduction, and superconduction.

This book will be of value to inorganic, organic, physical, and biochemists interested in the physical chemistry of porphyrins.

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