



# **The Porphyrins V3: Physical Chemistry, Part A: 003**

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## The Porphyrins V3: Physical Chemistry, Part A: 003

The Porphyrins, Volume III: Physical Chemistry, Part A deals with the physical chemistry of porphyrins, their precursors, catabolic derivatives, and related systems. The book covers electronic structure and spectroscopy including circular dichroism and magnetic circular dichroism as well as electronic, infrared, resonance Raman, and Zeeman spectroscopy. Porphyrin stereochemistry, X-ray crystallography, and mass spectroscopy are also included.

This volume is organized into 12 chapters and begins with an overview of the optical absorption and emission spectra of porphyrins and the theory by which these facts are understood. The discussion then shifts to the electronic states of the iron porphyrin complex in various heme proteins as displayed by the light absorption properties in the visible region of the electromagnetic spectrum. The reader is methodically introduced to the electronic absorption spectra and molecular orbital theory of chlorophylls, the magnetic optical activity of porphyrins and hemoproteins, and circular dichroism studies of hemoproteins. The book also examines the mass spectra and infrared spectroscopy of porphyrins, resonance Raman scattering from metalloporphyrins and hemoproteins, and photographic essay of porphyrins and related macrocycles. It then concludes with a chapter on high-resolution Zeeman spectroscopy of metalloporphyrins.

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

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