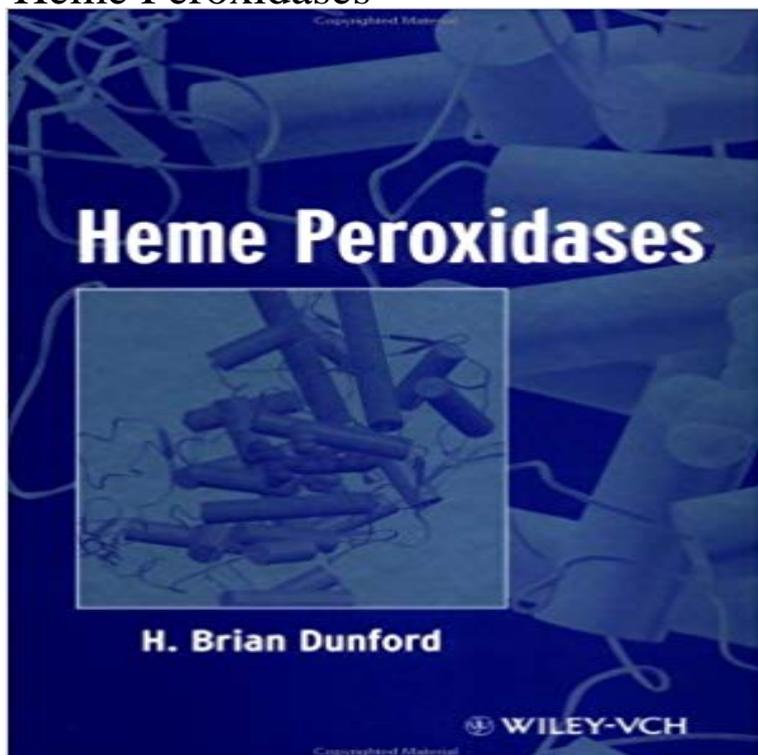


Heme Peroxidases



This book reflects the tremendous growth peroxidases research has experienced in recent years, providing for the first time in over three decades a systematic, up-to-date treatment of the subject. From cancer in plants to unique saddle-shaped hemes in peroxidases, it consolidates vast amounts of information previously scattered in the professional literature, covering all aspects of these ubiquitous enzymes that act on a variety of substances and processes in living systems-their properties, reactions, crystal structures, cloning, and more. Complete with hundreds of vivid illustrations, many in color or 3D, Heme Peroxidases presents Welinders recent classification of the enzymes according to their evolutionary development; X-ray crystallographic data on many peroxidases; a step-by-step introduction to modern spectroscopic techniques used in peroxidases research; an appendix listing amino acid sequences for all enzymes and catalases described in the book; and over 1,700 references to current results. This one-stop reference for analytical biochemists, biotechnologists, and others interested in the study and use of peroxidases, offers a critical review of the literature, and sorts through the various conflicting reports about peroxidase mechanisms. It familiarizes the reader with commercial and industrial applications in analytical biochemistry, biotechnology, medicine, agriculture, and the environment - addressing future trends in drug synthesis, water purification, and soil decontamination.

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