



Biodegradation of Cellulose: Enzymology and Biotechnology (Hardback)

By Anthony J. Clarke

Technomic Publishing Co ,U.S., United States, 1997. Hardback. Condition: New. Language: English . Brand New Book. FROM THE AUTHOR S PREFACE This book . . . is focused on the structure and function relationships of the four major hydrolytic enzymes, cellulases, cellobiohydrolases, b-glucosidases, and xylanases as it relates to their mechanism of action. It should be of interest to biotechnologists and industrial researchers interested in manipulating these enzymes to their full potential as catalysts for various current and new applications. It begins with an overview of the nature of cellulose and heteroxylan, followed by a description of the enzymes involved in its hydrolysis, their general structure, characteristics, and classification. Chapter 3 discusses how these various enzymes are integrated and associated for the efficient solubilization of cellulose and heteroxylan. This includes a review of the literature concerning the cellulosomes and other cellulolytic complexes. The chapter on production and purification provides an overview of this subject matter. . . . These first four chapters thus set the stage for the more comprehensive discussion of the mechanism of action of each of the primary hydrolases which follows. . . . [T]he data pertaining to the catalytic mechanism of both the retaining and inverting...



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