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Nota di contenuto	Cellulose -- Contents -- Preface -- Section 1 Reviews -- Chapter1 Insights from over 10 Years of Cellulosic Biofuel Modeling -- Chapter2 Alternative Raw Materials for Pulp and Paper Production in the Concept of a Lignocellulosic Biorefinery -- Section 2 Structure -- Chapter3 Influence of Size Classifications on the Structural and Solid-State Characterization of Cellulose Materials -- Chapter4 An Update on Overview of Cellulose, Its Structure and Applications -- Section 3 Applications -- Chapter5 Microbial Cellulases: An Overview and Applications -- Chapter6 Multi-Finishing of Polyester and Polyester Cotton Blend Fabrics Activated by EnzymaticTreatment and Loaded with Zinc Oxide Nanoparticles.
Sommario/riassunto	Cellulosic fibers are becoming increasingly important in many industrial sectors. Indeed, their availability, low cost, and durability make them suitable for application in various fields. This book presents important information about the structure of cellulose as well as its uses and applications. Topics covered include: the dynamic modeling of cellulose industry systems for biofuels in the United States; the integration of alternative raw materials to wood in biorefinery processes; the influence of size classification on the properties of cellulose materials; the chemistry of cellulose, its extraction, and its properties; cellulases; and enzymatic treatments for producing surface activation on cellulosic fibers.