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Descrizione fisica	1 online resource (540 p.)
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Nota di contenuto	Front Cover; Foreword; Table of Contents; Preface; Chapter 1 Introduction; Chapter 2 Photosynthesis, the Ultimate Beginning for Biorefineries; Chapter 3 Features of First Generation Biorefineries; Chapter 4 the Predominant Constituent of Biomass; Chapter 5 Enzymatic and non- Biological Degradation of Cellulose; Chapter 6 Hemicelluloses and Lignin, Other Key Constituents of Biomass; Chapter 7 Pretreatments of Lignocellulosic Biomass; Chapter 8 Biochemical Conversion of Biomass; Chapter 9 Thermochemical Conversion of Lignocellulosic Biomass; Chapter 10 Perspectives; Glossary; Back Cover
Sommario/riassunto	Written with a diverse audience in mind, this book describes the current status, development, and future prospects for the critical technology of second-generation biorefineries, specifically with a focus on lignocellulosic materials as feedstock. It provides an overview of the issues behind this technological transition, and it provides, in depth, the science and technology related to cellulose for production of bioethanol and other biofuels. The book also highlights the main emerging routes that will serve as the source of important bio-generated products in the future.