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Nota di contenuto	Introduction to different types of biomasses -- Composition and properties of Biomass -- Biomass Modifications -- Cellulose and Modifications -- Lignin and Modifications -- Hemicellulose and Modifications -- Pectin and Modifications -- Starch and Modifications -- Nanocellulose and Modifications -- Conversion Strategies for Biomass -- Biomass Valorization -- Science and Technology of Biomass -- Environmental and Sustainability aspects related to Biomass.
Sommario/riassunto	This handbook constitutes state-of-the-art research covering topics such as chemical constituents of biomass, their specific properties, characterization and different applications. The contents also discuss challenges and issues involved in its applications. This volume brings together a number of biomass-derived potential renewable elements and its circular economy approach in one place. The content includes industrial applications and fills the gap in laboratory research works to practical applications in related industries. The book gives an insight towards the circular economy approach by the biomass, different gross

morphologies of biomasses and the valuable chemical constituents that can be derived from the biomass and moreover the potential applications of all those constituents. It enables researchers and scientists to get informed of the designs to improve existing utilization of biomass in an efficient manner and deliver better products at lower cost. The volume isuseful reference for professionals, researchers, industrial practitioners, graduate students and senior undergraduates in the fields of polymer science, bioscience and bioengineering. It also provides an in-depth reference for biomass processors and fabricators and for industry sectors utilizing biomass such as packaging, sensors, film manufacturers, medical device manufacturers and biomedical engineers.