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Nota di contenuto	Process Engineering Principles of Plant-Based Products -- Process and Principle of Components Separation from Plant-Based Materials -- Processing Engineering and Application of Plant-Based Chemicals -- Process Engineering and Applications of Plant-Based Materials -- The Process Engineering in Plant-Based Energy.
Sommario/riassunto	Plant-based biomass resources, including cereals, crop residues, seed of oil crops, sugar crops, forage crops and various woody crops, can be converted to several of bio-products through physical, chemical and biological conversion methods. Although the components of different plant-based raw materials are varied, there are four main compounds: carbohydrate (sugar, starch, cellulose and hemicellulose), lignin (polyphenol), esters and protein. This new and important book aims to analyze the common problems of the conversion process of plant-based products starting with the key problems of the complexity of the plant-based raw materials, the aeoe process integration of process engineering, and the aeoe structure and function of product engineering. The concept of aeoe plant-based products process engineering is advanced based on the integration of multidisciplinary knowledge, and the system of multilevel conversion is expatiated from the three areas: raw materials, conversion process and product development. These afford a theoretic and technologic support

for development of plant-based products process engineering. This book also introduces the key technology platforms for plant-based products process engineering, the main approaches for using these platforms to achieve a multilevel utilization of plant-based raw materials, and the constitution of a novel mode for the ecological industry of plant-based products.
