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Soggetti	Biochemical engineering Energy systems Biochemical Engineering Energy Systems
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A Review on the Empty Fruit Bunch Composting: Life Cycle Analysis and the Effect of Amendment(s).- Effect of Adaptation of Acidothiobacillus Ferrooxidans on Ferrous Oxidation and Nickel Leaching Efficiency -- A Review on Ash Formation During Pulverized Fuel Combustion: State of Art and Future Research Needs -- Waste Management Methods and Sustainability -- Modeling of Free Fatty Acid Content in the Deodorization Process of Palm Oil Refinery Using Six Sigma with Response Surface Methodology -- Biomass and Bioenergy Technology -- Process Analysis of Microalgae Biomass Thermal Disruption for Biofuel Production -- Biogas from Poultry Litter: A Review on Recent Technological Advancements -- Current Advances of Biogas via Anaerobic Digestion of Industrial Wastewater -- Bioenergy: Biofuels Process Technology -- Optimization Study of Catalytic Co-gasification of Rubber Seed Shell and High Density Polyethylene Waste for Hydrogen Production Using Response Surface Methodology -- Studies on Effect of Process Parameters Variation on Bio-Oil Yield in Subcritical and Supercritical Hydrothermal Liquefaction of Malaysian Oil Palm Biomass. - Agro-residues as Fuel and as a Feedstock for Other Products -- Biogas as Clean Fuel for Cooking and Transportation Needs in India -- Thermochemical Processing of Biomass -- Dynamic Enzymatic Kinetic Resolution of NSAIDS -- Catgut Waste Utilization for Protease

Production Using Bacillus Subtilis -- Membrane Processes for Microalgae in Carbonation and Wastewater Treatment -- A Systems View of Lignocellulose Hydrolysis -- Innovations in Alcoholic Beverage Production -- Starter Culture Technology – Fermented Foods -- Ca-Alginate Liquid Core Capsule for Lactobacili Fermentation -- Intellectual Property Rights-Protection and Regulation.

Sommario/riassunto

This book provides an extensive overview of the latest research in environmentally benign integrated bioprocess technology. The cutting edge bioprocess technologies highlighted in the book include bioenergy from lignocellulose materials, biomass gasification, ethanol, butanol, biodiesel from agro waste, enzymatic bioprocess technology, food fermentation with starter cultures, and intellectual property rights for bioprocesses. This book further addresses niche technologies in bioprocesses that broadens readers' understanding of downstream processing for bio products and membrane technology for bioprocesses. The latest developments in biomass and bioenergy technology are reviewed exhaustively, including IPR rights, nanotechnology for bioenergy products, biomass gasification, and biomass combustion. This is an ideal book for scientists, engineers, students, as well as members of industry and policy-makers. This book also: Addresses cutting-edge technologies in bioprocesses Broadens readers' understanding of metabolic engineering, downstream processing for bioproducts, and membrane technology for bioprocesses Reviews exhaustively the latest developments in biomass and bioenergy technology, including nanotechnology for bioenergy products, biomass gasification, biomass combustion, and more.
