



Production of Biofuels and Chemicals from Lignin /

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This book provides state-of-the-art reviews, current research on and the prospects of lignin production, biological, thermal and chemical conversion methods, and lignin technoeconomics. Fundamental topics related to lignin chemistry, properties, analysis, characterization, and depolymerization mechanisms, as well as enzymatic, fungal and bacterial degradation methods are covered. The book also examines practical topics related to technologies for lignin and ultra-pure lignin recovery, activated carbon, carbon fiber production and materials, and addresses the biological conversion of lignin with fungi, bacteria or enzymes to produce chemicals, along with chemical, catalytic, thermochemical and solvolysis conversion methods. Lastly, it presents a case study on practical polyurethane foam production using lignin. Lignin has a bright future and will be an essential feedstock for producing renewable chemicals, biofuels and value-added products. Offering comprehensive information on this promising material, the book represents a valuable resource for students, researchers, academicians and industrialists in the field of biochemistry and energy

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