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Wood Chemistry, Fundamentals and Applications, Second Edition, examines the basic principles of wood chemistry and its potential applications to pulping and papermaking, wood and wood waste utilization, pulping by-products for production of chemicals and energy, and biomass conversion.

In its broadest sense, and according to the traditional conception, wood chemistry is a

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comprehensive discipline, ranging from fundamental studies to practical applications. The manifold constituents, located in different morphological regions in the wood, results in an extreme complexity of wood chemistry. Ever more sophisticated endeavors needing fundamental studies and advanced analytical methods are necessary in order to delve deeper into various problems in pulping and papermaking. Gradually, new, improved analytical methods, originally developed for research purposes, are currently replacing many of the old "routine" methods in practical applications. Because of the expanse of the subject, an attempt to write a book of this size about analytical methods seems, perhaps, too ambitious. Of course, a whole book series of several volumes would be necessary to cover this topic completely. However, there is undoubtedly a need for

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A more condensed presentation which does not go into experimental details, but is limited to the basic principles of the analytical methods and illustrates their applications. The emphasis is on more advanced and potential methods, and particularly on those based on different types of spectroscopy and chromatography.

The production of forestry products is based on a complex chain of knowledge in which the biological material wood with all its natural variability is converted into a variety of fiber-based products, each one with its detailed and specific quality requirements. This four volume set covers the entire spectrum of pulp and paper chemistry and technology from starting material to processes and products including market demands. Supported by a grant from the Ljungberg Foundation,

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the Editors at the Royal Institute of Technology, Stockholm, Sweden coordinated over 30 authors from university and industry to create this comprehensive overview. This work is essential for all students of wood science and a useful reference for those working in the pulp and paper industry or on the chemistry of renewable resources.

The biorefinery, integration of processes and technologies for biomass conversion, demands efficient utilization of all components. Hydrothermal processing is a potential clean technology to convert raw materials such as lignocellulosic and aquatic biomass into bioenergy and high added-value compounds. This book aims to show fundamental concepts and key technological developments that enabled industrial application of hydrothermal processing. The scope of this book is

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primarily for scientists working in the biorefinery field as well as engineers from industry and potential investors in biofuels. Therefore, the information in this book will provide an overview of this technology applied to lignocellulosic materials and aquatic biomass, and especially new knowledge. Critically, this book brings together experts in the application of hydrothermal processes on lignocellulosic and aquatic biomass.

Integrates the latest advances in polysaccharide chemistry and structure analysis, with the practical applications of polysaccharides in medicine and pharmacy, highlighting the role of glycoconjugates in basic biological processes and immunology. It also presents recent developments in glycobiology and glycopathology. The work covers bacterial, fungal and cell-wall polysaccharides,

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Microbial and bacterial

exopolysaccharides, industrial gums, the biosynthesis of bacterial polysaccharides, and the production of microbial polysaccharides.

The production of forestry products is based on a complex chain of knowledge in which the biological material wood with all its natural variability is converted into a variety of fiber-based products, each one with its detailed and specific quality requirements. This four volume set covers the entire spectrum of pulp and paper chemistry and technology from starting material to processes and products including market demands. Supported by a grant from the Ljungberg Foundation, the Editors at the Royal Institute of Technology, Stockholm, Sweden coordinated over 30 authors from university and industry to create this

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comprehensive overview. This work is essential for all students of wood science and a useful reference for those working in the pulp and paper industry or on the chemistry of renewable resources.

Smoking was one of the first forms of food processing, and through the centuries the chemistry of smoke has slowly evolved. It is now known that wood and food composition can significantly influence smoke composition, as well as the resulting textual, sensory, nutritional, antioxidative, and antimicrobial properties of the smoked food. Aside from beneficial properties, one must also consider potential health concerns associated with certain woods and their resulting smoke.

This text details the principal concepts and developments in wood science, chemistry and technology. It includes new chapters

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on the chemical synthesis of cellulose and its technology, preservation of wood resources and the conservation of waterlogged wood.

Documenting critical advances in this rapidly evolving field, the Second Edition highlights the need for new applications and technologies that assist in the determination of molecular weight and molecular weight distributions of polymers in an accurate, efficient manner. This volume presents the latest findings from a international team of specialists and continues to inspire and extend practical applications of size exclusion chromatography (SEC). It includes six new chapters covering high-speed size exclusion chromatography, SEC of low molecular weight materials, and the extended family of techniques, from two-dimensional liquid chromatography to

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high osmotic pressure chromatography.

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