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The manifold constituents, located in

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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.

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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

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purposes, are currently replacing

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Rapid Analytical Methods To Measure
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Pentachlorophenol (PCP) was

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measured in wood following extraction with methanol:0.1% acetic acid. The extract was derivatized with acetic anhydride in a biphasic solvent containing toluene and 0.1 M Na_2CO_3 (pH 11.4), and pentachlorophenyl acetate was quantitated by gas chromatography?mass spectrometry

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(GC-MS) using [$^{13}\text{C}_6$]PCP as an
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is difficult to isolate from wood in pure form because it is intimately associated with the lignin and hemicelluloses. Analytical methods of cellulose preparation are discussed in the section on “Analytical Procedures.” HEMCELLULOSES.

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Hemicelluloses are mixtures of polysaccharides synthesized in wood almost entirely from glucose, mannose,

The Chemical Composition of Wood
Analytical methods have been very important since the early days of

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(pH 11.4), and pentachlorophenyl acetate was quantitated by gas chromatography - mass spectrometry (GC - MS) using [13C6]PCP as an internal standard.

*Rapid Analytical Methods to Measure
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Tentative interpretation of carbon-13 and hydrogen-1 nuclear magnetic resonance chemical shifts in simple methyl and ethyl derivatives; An Expeditious Synthesis of C(3)?N(1?) Heterodimeric Indolines

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

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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

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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

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would be necessary to cover this topic completely. However, there is undoubtedly a need for 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

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more advanced and potential methods, and particularly on those based on different types of spectroscopy and chromatography.

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An up-to-date compilation of the theoretical background and practical procedures involved in lignin characterization. Whenever possible,

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The procedures are presented in sufficient detail to enable the reader to perform the analysis solely by following the step-by-step description. The advantages and limitations of individual methods are discussed and, more importantly, illustrated by typical analytical data in comparison to results

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obtained from other methods. This handbook serves the need of researchers and other professionals in academia, the pulp and paper industry as well as allied industries. It is equally useful for those with no previous experience in lignin or lignocellulosics.

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The accurate measurement of additives in food is essential in meeting both regulatory requirements and the need of consumers for accurate information about the products they eat. Whilst there are established methods of analysis for many additives, others lack agreed or

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Chromatography/Mass Spectrometry, and so on. Authors David C. Dayton and Thomas D. Foust show how these can be used for measuring biomass composition and for determining the composition of intermediates with regard to subsequent processing for biofuels, bio-chemicals and bio-based

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technical articles that go into greater depth, serving as a basis for further study

Chemistry in the Utilization of Wood deals with the chemistry of wood and its technical and practical applications. It shows how the chemical nature of

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Wood influences its properties and utilization, both as a constructional material and as the raw material for the manufacture of secondary products such as pulp and paper, cellulose derivatives, and board materials. Comprised of 12 chapters, this volume begins with an introduction

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to the chemical nature of wood, including a brief treatment of its anatomical structure. The discussion then turns to the chemistry of wood cell wall components such as cellulose, hemicellulose, and lignin; the principles of the methods employed in wood analysis, with

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emphasis on the determination of moisture content and extractives, cellulose, pentosan, and other polysaccharides; the influence of extractives on the properties and utilization of wood; and the use of timber in conjunction with chemicals. Other chapters deal with the

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conversion of wood into chemical products; corrosion of metals in association with wood; and the relationship between wood and water. The chemical aspects of wood attack by fungi and insects are also considered, along with destructive distillation of wood. This book is

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primarily intended for technical men in the wood-using industries who have an interest in wood and some knowledge of chemistry, and for students entering any field of wood technology.

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