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Vibrational Spectroscopy; Chapter 5: NMR of Lignins; Chapter 6: Heteronuclear NMRSpectroscopy of Lignins; Chapter 7: Functional Groups andBonding Patterns inLignin (Including theLignin-Carbohydrate Complexes); Chapter 8: Thermal Properties ofIsolated and in situ Lignin; Chapter 9: Reactivity of Lignin-Correlation withMolecular Orbital Calculations; Chapter 10: Chemistry of Alkaline Pulping
Chapter 11: Chemistry of Pulp BleachingChapter 12: The Chemistry ofLignin-RetainingBleaching: Oxidative Bleaching Agents; Chapter 13: The Chemistry ofLignin-RetainingBleaching: Reductive Bleaching Agents; Chapter 14: Lignin Biodegradation; Chapter 15: Biopulping and Biobleaching; Chapter 16: The Photochemistry of Lignin; Chapter 17: PharmacologicalProperties of Lignans; Index; Back cover

Sommario/riassunto

Over the past four decades, there has been immense progress in every area of lignin science, ranging from the enzymology of lignin biodegradation, to the delignification of wood fiber during pulping and bleaching, to advances in spectroscopy. Lignin and Lignans: Advances in Chemistry captures the developments that have been achieved by world-class scientists in the most critical aspects of this burgeoning field.Tools for the characterization of lignin and lignans After an overview of the topic, the book discusses the significan