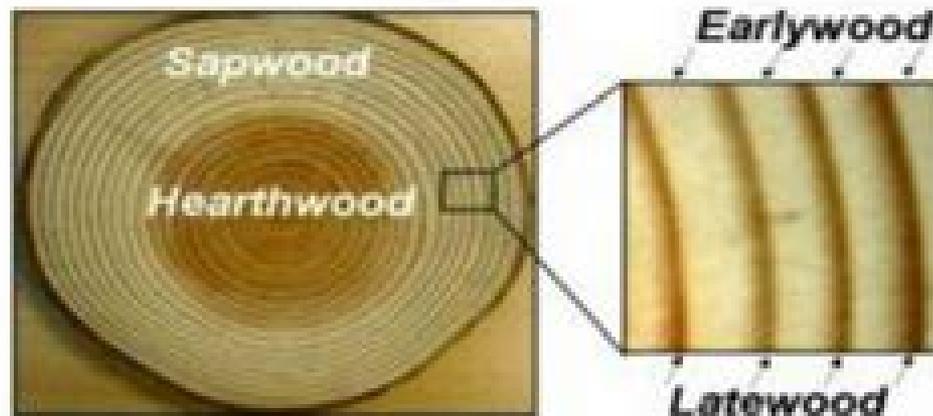


# Extractives distribution – cross sectional

- The amount and composition of extractives vary over the log cross section
- Most significant for softwoods
- Biggest difference between heartwood and sapwood



# Wood Extractives Their Significance To

**JA Banks**



## Wood Extractives Their Significance To:

**Analytical Methods in Wood Chemistry, Pulping, and Papermaking** Eero Sjöström, Raimo Alen, 2013-03-09 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 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 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

*Heartwood and Tree Exudates* William E. Hillis, 2012-12-06 Why prepare a treatise on Heartwood and Tree Exudates Why consider both topics together What approach should be taken in their treatment The exudates were one of the earliest items of trade between family tribal and racial groupings in prehistoric times They became used extensively as items for the manufacture of implements and as commercial goods for illumination for cosmetic religious and magical purposes Later heartwood from various trees entered intra and international trade for prestigious and religious buildings when cedars were used for the furniture e g ebony mahogany of the nobility for boats and vehicles Consideration of their relevance to anthropology and to the origin of technological developments in different primitive cultures would satisfy a personal life long interest Attention to such a topic is urgently needed now that the development and destruction of land and forests is increasing and wiping out the traces of earlier people to meet the demands of the rapidly enlarging populations of today The latter represents an even more urgent need Increasingly mankind will depend on renewable resources produced at low energy cost Forest products are one of these and the greater demands for them will require their growth and utilization with reduced loss and waste

Natural Products of Woody Plants John W. Rowe, 2012-12-06 Wood as found in trees and bushes was of primary importance to ancient humans in their struggle to control their environment Subsequent evolution through the Bronze and Iron Ages up to our present technologically advanced society has hardly diminished the importance of wood Today its role as a source of paper products furniture building materials and fuel is still of major significance Wood consists of a mixture of polymers often referred to as lignocellulose The cellulose microfibrils consist of an immensely strong linear polymer of glucose They are associated with smaller more complex polymers composed of various sugars called hemicelluloses These polysaccharides are embedded in an amorphous phenylpropane polymer lignin creating a remarkably

strong composite structure the lignocellulosic cell wall Wood also contains materials that are largely extraneous to this lignocellulosic cell wall These extracellular substances can range from less than 10% to about 35% of the dry weight of the wood but the usual range is 2% 10% Among these components are the mineral constituents salts of calcium potassium sodium and other metals particularly those present in the soil where the tree is growing Some of the extraneous components of wood are too insoluble to be extracted by inert solvents and remain to give extractive free wood its color very often these are high molecular weight polyphenolics

*The Influence of Wood Extractives on Durability Properties of Hardwood and Softwood Species Exposed to Artificial Weathering* Pascal Nzokou,2004 Bibliography of Agriculture ,1963 **Plant Polyphenols** Richard W. Hemingway,Peter E. Laks,Susan J. Branham,1992-09-30 Proceedings of the Second North American Tannin Conference on Plant Polyphenols held in Houghton Michigan June 17 21 1991 **Studies in the Chemistry of Wood** Louis Carl Fleck,1927 Chemistry and Industry ,1963 **The Chemistry of Cellulose and Wood** Arlie William Schorger,1926 **Collected Papers** Charles Atwood Kofoid,1927 **Records of the Proceedings and Printed Papers of the Parliament** Australia. Parliament,1962 **The Chemistry of Wood** Lee Fred Hawley,Louis Elsberg Wise,1926 **American Lumberman** ,1929 *Journal of the Council for Scientific and Industrial Research* Council for Scientific and Industrial Research (Australia),1929 *Journal of the Council for Scientific and Industrial Research* ,1927 **Wood Distillation** Lee Fred Hawley,1923 **Marine borers and their relation to marine construction on the Pacific** San Francisco Bay Marine Piling Committee,1927 **Journal ...** Council for Scientific and Industrial Research (Australia),1927 **Journal of Forestry** ,1927 List of members of the society in v 15 **The Pharmaceutical Era** Charles W. Parsons,1916

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