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Primary wood processing: Principles and practice

Primary Wood Processing book. Read reviews from world ' s largest community for readers. Samuel Johnson (of Boswell fame) said about writing, 'whatever is ...

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Rather it is an uneven selection of examples whose interplay across disciplines hopefully illuminates what drives the practice of forest production, wood processing and consumer preferences. The choice of material is arbitrary reflecting personal biases.

Primary Wood Processing: Principles and Practice For ...

Primary Wood Processing: Principles and Practice John C.F. Walker No preview available - 2010

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The over-riding emphasis is on a clear, simple interpretation of the underlying science, demonstrating how such principles apply to processing operations. The book starts by considering the broad question "what is wood?" by looking at the biology, chemistry and physics of wood structure (first 4 chapters). This sets the scene.

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Primary Wood Processing Principles And Practice

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This book is primarily a general text covering the whole sweep of the forest industries. The over-riding emphasis is on a clear, simple interpretation of the underlying science, demonstrating how such principles apply to processing operations. The book considers the broad question "what is wood?" by looking at the biology, chemistry and physics of wood structure. Wood quality is examined, and explanations are offered on how and why wood quality varies and the implications for processing. Finally, various "industrial processes" are reviewed and interpreted. All chapters have been written by specialists, but the presentation targets a generalist audience.

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Forestry has long been in a rather favourable position in offering a valuable raw material source in high demand. However, with rapidly changing end-user demands and cost competitiveness within the forest and wood chain as a whole, the industry is needing to adapt. Explaining entrepreneurial action as part of a chain of comprehensive value-added processes leads to a new perception of forest production and wood processing. This book applies the main concepts of modern managerial science to the world of forestry and is the perfect book for students studying forestry and wood processing, as well as entrepreneurs and managers within the sector. Topics are covered from an entrepreneurial perspective and include perspectives from accounting, finance, economics, supply chain management, marketing and strategy.

This book discusses conventional as well as unconventional wood drying technologies. It covers fundamental thermophysical and energetic aspects and integrates two complex thermodynamic systems, conventional kilns and heat pumps, aimed at improving the energy performance of dryers and the final quality of dried lumber. It discusses advanced components, kiln energy requirements, modeling, and software and emphasizes dryer/heat pump optimum coupling, control, and energy efficiency. Problems are included in most chapters as practical, numerical examples for process and system/components calculation and design. The book presents promising advancements and R&D challenges and future requirements.

Wood has played a major role throughout human history. Strong and versatile, the earliest humans used wood to make shelters, cook food, construct tools, build boats, and make weapons. Recently, scientists, politicians, and economists have renewed their interest in wood because of its unique properties, aesthetics, availability, abundance, and perhaps most important of all, its renewability. However, wood will not reach its highest use potential until we fully describe it, understand the mechanisms that control its performance properties, and, finally, are able to manipulate those properties to give us the desired performance we seek. The Handbook of Wood Chemistry and Wood Composites analyzes the chemical composition and physical properties of wood cellulose and its response to natural processes of degradation. It describes safe and effective chemical modifications to strengthen wood against biological, chemical, and mechanical degradation without using toxic, leachable, or corrosive chemicals. Expert researchers provide insightful analyses of the types of chemical modifications applied to polymer cell walls in wood. They emphasize the mechanisms of reaction involved and resulting changes in performance properties including modifications that increase water repellency, fire retardancy, and resistance to ultraviolet light, heat, moisture, mold, and other biological organisms. The text also explores modifications that increase mechanical strength, such as lumen fill, monomer polymer penetration, and plasticization. The Handbook of Wood Chemistry and Wood Composites concludes with the latest applications, such as adhesives, geotextiles, and sorbents, and future trends in the use of wood-based composites in terms of sustainable agriculture, biodegradability and recycling, and economics. Incorporating decades of teaching experience, the editor of this handbook is well-attuned to educational demands as well as industry standards and research trends.

Wood is the most versatile raw material available to man. It is burned as fuel, shaped into utensils, used as a structural engineering material, converted into fibres for paper production, and put to newer uses as a source of industrial chemicals. Its quality results largely from the chemical and physical structure of the cell walls of its component fibres, which can be modified in nature as the tree responds to physical environmental stresses. Internal stresses can accumulate, which are released catastrophically when the tree is felled, often rendering the timber useless. The quality of timber as an engineering material also depends on the structure of the wood and the way in which it has developed in the living tree. Tree improvement for quality cannot be carried out without an understanding of the biological basis underlying wood formation and structure. This volume brings together the viewpoints of both biologists and physical scientists, covering the spectrum from the formation of wood to its structure and properties, and relating these properties to industrial use. This is a volume for researchers and professionals in plant physiology, molecular biology and biochemistry.

Since the sixth edition of this classic text/reference was published in 1981, there have been so many developments in the field that the new seventh edition represents an almost total rewrite of the subject matter. The opportunity has been taken to rearrange the structure and broaden the scope to cover areas of conversion, machining and the application of paints and finishes; the format has also been enlarged to improve readability. Part 1 contains chapters that deal with the structure of wood at the gross, cellular and molecular levels; variability is also covered. Part 2 has five chapters on the properties of wood, with special coverage of elastic behaviour, toughness and the use of structural-sized timber for strength tests. Part 3 on processing has material on several new areas not covered in earlier editions of the book; for example, log conversion, seasoning, and the machining of wood and board. The discussion of grading and grade stresses is fully updated. Part 4 on utilisation examines the latest techniques and standards for the manufacture of wood products. Part 5 examines all aspects of timber in service, including protection and preservation. The book will appeal to a wide readership, both as a student text and reference. Students of wood science and forestry at undergraduate and equivalent level will find it of special value. All institutions with courses in the built environment will wish to make the book available as a reference source.

Recent progress in enhancing and refining the performance and properties of wood composites by chemical and thermal modification and the application of smart multi-functional coatings have made them a particular area of interest for researchers. Wood Composites comprehensively reviews the whole field of wood composites, with particular focus on their materials, applications and engineering and scientific advances, including solutions inspired biomimetrically by the structure of wood and wood composites. Part One covers the materials used for wood composites and examines wood microstructure, and wood processing and adhesives for wood composites. Part Two explores the many applications of wood composites, for example plywood, fibreboard, chipboard, glulam, cross-laminated timber, I-beams and wood-polymer composites. The final part investigates advances in wood composites and looks at the preservation and modification of wood composites, environmental impacts and legislative obligations, nano-coatings and plasma treatment, biomimetic composite materials, the integration of wood composites with other materials and carbonized and mineralized wood composites. Comprehensively reviews the entire field of wood composites in a single volume Examines recent progress in enhancing and refining the performance and properties of wood composites by chemical and thermal modification and the application of smart multi-functional coatings Explores the range of wood composites, including both new and traditional products

Wood is an advantageous building material in many respects, but it is biodegradable and therefore requires protection when used in highly hazardous applications. This Special Issue comprises 19 papers by authors from 14 countries in Asia, North America and Europe. They represent a wide range of aspects related to wood protection and wood preservation, and give timely examples of research activities that can be observed around the globe. Several authors reported on the processes of thermal modification and different chemical wood modification techniques, which are among the latest alternative wood protection methods without the use of biocides. New preservatives and assessment methods of preservative-treated wood products are presented, as well as studies on the natural durability of wood, fire-retardant treated wood, the effect of concrete on wood durability and different novel surface modification techniques using plasma. In addition to biological durability, the mechanical properties, moisture performance, bonding properties, weathering stability and the corrosiveness of differently treated wood are investigated and reported within this Special Issue. Examples of research on fungal biology, service life planning with wood and test methodology are also included and complete the Special Issue.

This book provides basic information on the design of structures with tropical woods. It is intended primarily for teaching university- and college-level courses in structural design. It is also suitable as a reference material for practitioners. Although parts of the background material relate specifically to West and East Africa, the design principles apply to the whole of tropical Africa, Latin America and South Asia. The book is laced with ample illustrations including photographs of real life wood structures and structural elements across Africa that make for interesting reading. It has numerous manual and Excel spread sheet worked examples and review questions that can properly guide a first-time designer of wooden structural elements. A number of design problems are also solved using the FORTRAN programming language. Topics covered in the thirteen chapters of the book include a brief introduction to the book, the anatomy and physical properties of tropical woods; a brief review of the mechanical properties of wood, timber seasoning and preservation, uses of wood and wood products in construction; basic theory of structures, and structural load computations; design of wooden beams, solid and built-up wooden columns, wood connections and wooden trusses; as well as a brief introduction to the design of wooden bridges.

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