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a necessary purchase for level 1 and 2 undergraduates studying building construction materials modules materials for architects and builders provides an introduction to the broad range of materials used within the construction industry and contains information pertaining to their manufacture key physical properties specification and uses construction materials is a core module on all undergraduate and diploma construction related courses and this established textbook is illustrated in colour throughout with many photographs and diagrams to help students understand the key principles this new edition has been completely revised and updated to include the latest developments in materials appropriate technologies and relevant legislation the current concern for the ecological effects of building construction and lifetime use are reflected in the emphasis given to sustainability and recycling an additional chapter on sustainability and governmental carbon targets reinforces this issue

this new textbook has two main themes the first is modern methods of construction mmc which is the off site manufacture of a wide spectrum of products ranging from whole buildings to be transported onto site down to smaller units or components for site integration the second theme describes the innovation and progress towards carbon zero by the major generators of co2 in the construction industry namely cement steel and masonry the first section of the book describes and illustrates with photographs the major forms of modern methods of construction these include fully completed 3d units panelised systems pods sub assemblies and on site mmc the section on innovative materials then describes a wide range of construction products which are entering into the built environment sector some new entrants are variants on well established construction materials such as steel and concrete materials such as these will remain major construction materials for the foreseeable future

but their composition and manufacturing processes will inevitably have to change timber also will remain a major construction material but sustainable sourcing is key and its utilisation as cross lamination timber clt or as modified timber is rapidly developing as a result students and practitioners must familiarise themselves with these materials their composition and various uses the book goes on to describe variants of other traditional building products such as glass plastic and insulation which are undergoing major developments leading towards enhanced environmental sustainability as well as many emergent materials some of which are likely to be significant in future modern methods of construction and innovative materials is the only book combining these important elements of the future of the industry in an easy to read guide for students and new practitioners it is essential reading for anyone studying and working in the built environment be they architects construction managers surveyors or engineers

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

this new edition has been fully updated to take into account new materials that have come into use since the first edition in particular there is increased emphasis on environmental concerns with new chapters on ecological and energy saving materials such as photovoltaics

this study provides an overview of the current policy and regulatory environment regarding sustainable construction materials in the building sector in europe and north america and where applicable offers a commentary on the effectiveness of such regimes in driving the adoption of wood products the study s objective has been to conduct a broad survey across a range of policies initiatives and programmes in order to document the current circumstances as a starting point for further discussions technical meetings and policy debates with a view to enhance the use of wood in buildings through policy advice to member states

cross laminated timber clt has long been heralded as a wonder material with a light environmental footprint high strength quick installation times and reduced waste so why isn t everyone using it delving into the key considerations including fire safety cost and value visual aspects planning feasibility and engineering this book is an essential companion to designing and delivering exemplar clt buildings abundantly illustrated with over 130 colour images and in depth case studies from around the world it will help the entire project team

whether design team constructor or clients to better understand and build using a truly modern method of construction outlines key challenges as well as benefits of clt including quality cost and environmental benefits risk reduction and health and safety benefits presents lessons learnt to aid the development process from the earliest stages of design to production and assembly accessible easy to read handbook format allows you to dip in and out investigating issues as necessary multidisciplinary in approach with contributions from a range of practitioners

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