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~~Constructions: how can we build sustainable buildings? (part 1/2) | Sustainable Energy Sustainable Construction Materials and Techniques [Webinars BIG! Series #06] International Building Rating Systems and Sustainable Materials Sustainability of Construction Materials Sustainability Of Construction Materials Woodhead~~  
Various aspects of wood, crucial to its role as a construction material – i.e. seasoning, preservation and repair – have also been highlighted. The status of wood as a sustainable

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construction material has been reflected upon with regard to different features such as environmental friendliness, durability, waste disposal and recycling.

~~Sustainability of Construction Materials | ScienceDirect~~

The second edition of Sustainability of Construction Materials contains original chapters that have been fully updated to take on board new developments, and these are accompanied by additional new chapters, with each one addressing a particular category or aspect of sustainability in construction materials. Design and construction engineers, materials scientists and all those involved in selection, assessment, maintenance and use of construction materials will find this new edition a vital ...

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~~Sustainability of Construction Materials (Woodhead ...~~

Description. Sustainability of Construction Materials, Second Edition, explores an increasingly important aspect of construction. In recent years, serious consideration has been given to environmental and societal issues in the manufacturing, use, disposal, and recycling of construction materials.

~~Sustainability of Construction Materials - 2nd Edition~~

Sustainability of Construction Materials - Woodhead Publishing Download Copy of This Page Until recently, much of the development of building materials has predominantly focused on producing cheaper, stronger and more durable

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## Sustainability of Construction Materials – Woodhead Publishing

More recently attention has been given to the environmental issues in manufacturing, using, disposing and recycling of construction materials. Sustainability of construction materials brings together a wealth of recent research on the subject. The first part of the book gives a comprehensive and detailed analysis of the sustainability of the following building materials: aggregates; timber, wood and bamboo; vegetable fibres; masonry; cement, concrete and cement replacement materials; metals ...



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~~Sustainability of Construction Materials—1st Edition~~

Sustainability of Construction Materials. J. Khatib.

Woodhead Publishing, Jun 5, 2009 - Nature - 384 pages. 0

Reviews. Until recently, the development of building materials has focused on producing...

~~Sustainability of Construction Materials—Google Books~~

Sustainable Construction Materials: Recycled Aggregate

focuses on the massive systematic need that is necessary to encourage the uptake of recycled and secondary materials (RSM) in the construction industry. This book is the fifth and the last of the series on sustainable construction materials and like the previous four, it is also different to the norm.

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~~Sustainable Construction Materials: Recycled Aggregates ...~~

5.8. Glass: A sustainable construction material. The applications of glass in buildings to engineer reductions in operational energy have already been discussed in this chapter. The embodied energy/carbon impact of glass and the sustainability of glass as a construction material, including reuse and recycling, are discussed in the following ...

~~Sustainability of glass in construction—ScienceDirect~~  
Blog The History of Sustainability in Building Construction.  
The History of Sustainability in Building Construction.  
Posted on 8/26/2013 2:15:22 PM By Bob Braun . In this and successive blogs, I will begin a focus on sustainability from

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~~The History of Sustainability in Building Construction ...~~

SUSTAINABILITY OF CONSTRUCTION MATERIALS

KhatibJamal M Woodhead Publishing Limited, Cambridge, UK and CRC Press LLC, Boca Raton, FL, USA, 2009, 978-1-84569- 349-7 (book) and -2 (e-book), 978-1 ...

~~Construction Materials—ResearchGate~~

Sustainability of Construction Materials, Second Edition, explores an increasingly important aspect of construction. In recent years, serious consideration has been given to environmental and societal issues in the manufacturing,

# Read Book Sustainability Of Construction Materials Woodhead Publishing Series In ~~Civil And Structural Engineering~~ use, disposal, and recycling of construction materials.

~~Sustainability of Construction Materials. Edition No. 2 ...~~ structures and requires more sustainable construction materials on all of our projects. We promote the use of recycled and rapidly renewable content in concrete, insulation, carpet and other materials, and enforce low-toxicity standards. When disposing of materials, a construction and demolition (C&D) waste management plan

~~DESIGN + CONSTRUCTION EXCELLENCE Sustainable New York~~

Sustainable materials; Environmentally conscious construction, operations, and maintenance rules. It ' s made

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of recycled and recyclable materials; The building has 55 stories high and has 2,100,000 square feet (195,096 m<sup>2</sup>) of office space. The tower ' s architectural spire is 255.5 ft. (77.9 m) tall and place ...

~~Sustainable Architecture: The Bank of America (Case Study ...~~

A Sustainable Materials Management Strategy for New York  
Public Hearings June 2010 Resa Dimino Commissioner ' s  
Policy Office. NYS Department of Environmental  
Conservation Beyond Waste: Key Findings • 20 years after  
SWMA, still wasting 65-80% of materials • Waste  
contributes to climate change

~~Beyond Waste: A Sustainable Materials Management~~

# Read Book Sustainability Of Construction Materials Woodhead Publishing Series In Strategy ...

Wood is a natural, renewable, and sustainable material for building, with a lighter carbon footprint than steel or concrete. Maximizing wood use in both residential and commercial construction could remove an estimated 21 million tons of CO<sub>2</sub> from the atmosphere annually – equal to taking 4.4 million cars off the road.

~~Is Wood a Sustainable Material? | Think Wood~~

INTRODUCTION : #1 Sustainability Of Construction Materials Woodhead Publish By Roald Dahl, Wood Is A Sustainable Construction Material Swedish Wood a study has shown that where wood products replace other construction materials in buildings there is an estimated average

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substitution factor of 16 tonnes carbon dioxide per cubic metre of wood material

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INTRODUCTION : #1 Sustainability Of Construction Materials  
Woodhead Publish By Rex Stout, Wood Is A Sustainable  
Construction Material Swedish Wood a study has shown  
that where wood products replace other construction  
materials in buildings there is an estimated average  
substitution factor of 16 tonnes carbon dioxide per cubic  
metre of wood material

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Roofing Materials' Sustainability Ratings Metal Roofing .

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Although metal roofs are energy-intensive to produce, they are attractive and long-lasting, and they often contain high recycled content or are easily recyclable at the end of their lifetime. Metal roofs can reflect some heat to reduce heat gain, but they must be insulated properly because the metal is highly conductive of heat.

### ~~Sustainable Roofing Materials: What to Know~~

Find many great new & used options and get the best deals for Woodhead Publishing Series in Civil and Structural Engineering Ser.: Sustainable Construction Materials : Copper Slag by Chao Qun Lye, Raman Mangabhai, Ravindra K. Dhir Obe and Jorge de Brito (2016, Hardcover) at the best online prices at eBay! Free shipping for many products!



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Until recently, much of the development of building materials has predominantly focused on producing cheaper, stronger and more durable construction materials. More recently attention has been given to the environmental issues in manufacturing, using, disposing and recycling of construction materials. Sustainability of construction materials brings together a wealth of recent research on the subject. The first part of the book gives a comprehensive and detailed analysis of the sustainability of the following building materials: aggregates; timber, wood and bamboo; vegetable fibres; masonry; cement, concrete and cement

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replacement materials; metals and alloys; glass; and engineered wood products. A final group of chapters cover the use of waste tyre rubber in civil engineering works, the durability of sustainable construction materials and nanotechnologies for sustainable construction. With its distinguished editor and international team of contributors, Sustainability of construction materials is a standard reference for anyone involved in the construction and civil engineering industries with an interest in the highly important topic of sustainability. Provides a comprehensive and detailed analysis of the sustainability of a variety of construction materials ranging from wood and bamboo to cement and concrete Assesses the durability of sustainable construction materials including the utilisation of waste tyre

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rubber and vegetable fibres Collates a wealth of recent research including relevant case studies as well as an investigation into future trends

Sustainability of Construction Materials, Second Edition, explores an increasingly important aspect of construction. In recent years, serious consideration has been given to environmental and societal issues in the manufacturing, use, disposal, and recycling of construction materials. This book provides comprehensive and detailed analysis of the sustainability issues associated with these materials, mainly in relation to the constituent materials, processing, recycling, and lifecycle environmental impacts. The contents of each chapter reflect the individual aspects of the material

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that affect sustainability, such as the preservation and repair of timber, the use of cement replacements in concrete, the prevention and control of metal corrosion and the crucial role of adhesives in wood products. Provides helpful guidance on lifecycle assessment, durability, recycling, and the engineering properties of construction materials Fully updated to take on new developments, with an additional nineteen chapters added to include natural stone, polymers and plastics, and plaster products Provides essential reading for individuals at all levels who are involved in the construction and selection, assessment and use, and maintenance of materials

Sustainable Construction Materials: Sewage Sludge Ash,

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part of a series of five, aims to promote the use of sustainable construction materials. It is different from the norm, with its uniqueness lying in the development of a data matrix sourced from over 600 publications and contributed by 1107 authors from 442 institutions in 48 countries from 1970 to 2016, all focusing on the subject of sewage sludge ash as a construction material, and systematically analyzing, evaluating, and modeling the information for use in cement, concrete, ceramics, geotechnics, and road pavement applications. Related environmental issues, case studies, and standards are also discussed. The book helps users avoid repetitive research and save valuable resources, giving them more latitude to explore new research to progress the use of sustainable

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Civil And Structural Engineering construction materials. It is structured in an incisive and easy to digest manner. As an excellent reference source, the book is particularly suited for researchers, academics, design engineers, specifiers, contractors, developers, and certifying and regulatory authorities who seek to promote sustainability within the construction sector. Provides an extensive source of valuable database information supported by an exhaustive and comprehensively organized list of globally published literature spanning 40-50 years, up to 2016, with 5000 references Offers an analysis, evaluation, repackaging, and modeling of existing knowledge, encouraging more responsible use of waste materials in construction Presents a wealth of knowledge for use in many sectors relating to the construction profession

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Sustainable Construction Materials: Recycled Aggregate focuses on the massive systematic need that is necessary to encourage the uptake of recycled and secondary materials (RSM) in the construction industry. This book is the fifth and the last of the series on sustainable construction materials and like the previous four, it is also different to the norm. Its uniqueness lies in using the newly developed, Analytical Systemisation Method, in building the data-matrix sourced from 1413 publications, contributed by 2213 authors from 965 institutions in 67 countries, from 1977 to 2018, on the subject of recycled aggregate as a construction material, and systematically analysing, evaluating and modelling this information for use of the material as an aggregate concrete

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Civil And Structural Engineering applications. and mortar, geotechnics and road pavement applications. Environmental issues, case studies and standards are also discussed. The work establishes what is already known and can be used to further progress the use of sustainable construction materials. It can also help to avoid repetitive research and save valuable resources. The book is structured in an incisive and easy to digest manner and is particularly suited for researchers, academics, design engineers, specifiers, contractors, and government bodies dealing with construction works. Provides an exhaustive and comprehensively organized list of globally-based published literature spanning 5000 references Offers an analysis, evaluation, repackaging and modeling of existing knowledge that encourages more responsible use of waste



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materials Provides a wealth of knowledge for use in many sectors relating to the construction profession, including academia, research, practice and adoption of RSM

Nonconventional and Vernacular Construction Materials: Characterisation, Properties and Applications, Second Edition covers the topic by taking into account sustainability, the conservation movement, and current interests in cultural identity and its preservation. This updated edition presents case studies, information on relevant codes and regulations, and how they apply (or do not apply) to nocmats. Leading international experts contribute chapters on current applications and the engineering of these construction materials. Sections review

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vernacular construction, provide future directions for nonconventional and vernacular materials research, focus on natural fibers, and cover the use of industrial byproducts and natural ashes in cement mortar and concrete. Takes a scientifically rigorous approach to vernacular and non-conventional building materials and their applications Includes a series of case studies and new material on codes and regulations, thus providing an invaluable compendium of practical knowhow Presents the wider context of materials science and its applications in the sustainability agenda

Performance of Bio-based Building Materials provides guidance on the use of bio-based building materials (BBBM)

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with respect to their performance. The book focuses on BBBM currently present on the European market. The state-of-the-art is presented regarding material properties, recommended uses, performance expectancies, testing methodology, and related standards. Chapters cover both ' old and traditional ' BBBM since quite a few of them are experiencing a comeback on the market. Promising developments that could become commercial in the near future are presented as well. The book will be a valuable reference resource for those working in the bio-based materials research community, architects and agencies dealing with sustainable construction, and graduate students in civil engineering. Takes a unique approach to bio-based materials and presents a broad overview of the

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topics on relevant areas necessary for application and promotion in construction Contains a general description, notable properties related to performance, and applications Presents standards that are structured according to performance types

Principles for Evaluating Building Materials in Sustainable Construction: Healthy and Sustainable Materials for the Built Environment provides a comprehensive overview of the issues associated with the selection of materials for sustainable construction, proposing a holistic and integrated approach. The book evaluates the issues involved in choosing materials from an ecosystem services perspective, from the design stage to the impact of

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materials on the health of building users. The three main sections of the book discuss building materials in relation to ecosystem services, the implications of materials choice at the design stage, and the impact of materials on building users and their health. The final section focuses on specific case studies that illustrate the richness of solutions that existed before the rise of contemporary construction and that are consistent with a sustainable approach to creating built environments. These are followed by modern examples which apply some, if not all, of the principles discussed in the first three sections of the book. Provides a holistic and integrated approach to the issues associated with the selection of materials for sustainable construction Provides a thorough understanding of ecosystem services

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based on ecology research for built environment design  
Provides an original review of the impact of materials on human health  
Provides case studies to illustrate the points above

Smart Buildings: Advanced Materials and Nanotechnology to Improve Energy Efficiency and Environmental Performance presents a thorough analysis of the latest advancements in construction materials and building design that are applied to maximize building efficiency in both new and existing buildings. After a brief introduction on the issues concerning the design process in the third millennium, Part One examines the differences between Zero Energy, Green, and Smart Buildings, with particular

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emphasis placed on the issue of smart buildings and smart housing, mainly the ' envelope ' and how to make it more adaptive with the new possibilities offered by nanotechnology and smart materials. Part Two focuses on the last generation of solutions for smart thermal insulation. Based on the results of extensive research into more innovative insulation materials, chapters discuss achievements in nanotechnology, bio-ecological, and phase-change materials. The technical characteristics, performance level, and methods of use for each are described in detail, as are the achievements in the field of green walls and their use as a solution for upgrading the energy efficiency and environmental performance of existing buildings. Finally, Part Three reviews current research on smart windows, with

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the assumption that transparent surfaces represent the most critical element in the energy balance of the building. Chapters provide an extensive review on the technical features of transparent closures that are currently on the market or under development, from so-called dynamic glazing to bio-adaptive and photovoltaic glazing. The aesthetic potential and performance limits are also be discussed. Presents valuable definitions that are given to explain the characteristics, requirements, and differences between ' zero energy ', ' green ' and ' smart ' buildings Contains particular focus on the next generation of construction materials and the most advanced products currently entering the market Lists both the advantages and disadvantages to help the reader choose the most suitable



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solution Takes into consideration both design and materials aspects Promotes the existence of new advanced materials providing technical information to encourage further use and reduce costs compared to more traditional materials

Bio-based Materials and Biotechnologies for Eco-efficient Construction fills a gap in the published literature, discussing bio-based materials and biotechnologies that are crucial for a more sustainable construction industry. With comprehensive coverage and contributions from leading experts in the field, the book includes sections on Bio-based materials and biotechnologies for infrastructure applications, Bio-based materials and biotechnologies for building energy efficiency, and other applications, such as

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using biotechnology to reduce indoor air pollution, for water treatment, and in soil decontamination. The book will be an essential reference resource for academic researchers, civil engineers, contractors working in construction works, postgraduate students and other professionals.

From long-standing worries regarding the use of lead and asbestos to recent research into carcinogenic issues related to the use of plastics in construction, there is growing concern regarding the potential toxic effects of building materials on health. Toxicity of building materials provides an essential guide to this important problem and its solutions. Beginning with an overview of the material types and potential health hazards presented by building

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materials, the book goes on to consider key plastic materials. Materials responsible for formaldehyde and volatile organic compound emissions, as well as semi-volatile organic compounds, are then explored in depth, before a review of wood preservatives and mineral fibre-based building materials. Issues related to the use of radioactive materials and materials that release toxic fumes during burning are the focus of subsequent chapters, followed by discussion of the range of heavy metals, materials prone to mould growth, and antimicrobials. Finally, Toxicity of building materials concludes by considering the potential hazards posed by waste based/recycled building materials, and the toxicity of nanoparticles. With its distinguished editors and

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international team of expert contributors, Toxicity of building materials is an invaluable tool for all civil engineers, materials researchers, scientists and educators working in the field of building materials. Provides an essential guide to the potential toxic effects of building materials on health  
Comprehensively examines materials responsible for formaldehyde and volatile organic compound emissions, as well as semi-volatile organic compounds Later chapters focus on issues surrounding the use of radioactive materials and materials that release toxic fumes during burning

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