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additives, corrosion technology,  
ceramics, timber, steel, polymers,  
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products, sealants, adhesives.

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Construction and Building Materials,  
Elsevier, 110(1): 117-127. Cherifi, M.,  
Hazourli, S., and Laefer, D. (2016).

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Effect of Sludge pH and Treatment Time on the Electrokinetic Removal of Aluminum from Water Potabilization Treatment Sludge.

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Whenever materials will be hoisted

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over the sidewalk, regardless of building height or horizontal distance between building and sidewalk. When the structure reaches the planned height of the shed, Before beginning any renovation of a building façade, construction of a new building, or demolition.

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Buildings - Project Categories:  
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Since DDC has a vast base of knowledge in designing many building types, our staff has the expertise to assist design firms who may not have worked on a particular building type. Our experience is also helpful in technical areas, such as working with new materials,

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Implementing energy saving technologies, or referencing construction methods.

Eco-efficient Pavement Construction  
Materials acquaints engineers with

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research findings on new eco-efficient pavement materials and how they can be incorporated into future pavements. Divided into three distinctive parts, the book emphasizes current research topics such as pavements with recycled waste, pavements for climate change



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**Mitigation**, self-healing pavements, and pavements with energy harvesting potential. Part One considers techniques for recycling, Part Two reviews the contribution of pavements for climate change mitigation, including cool pavements, the development of new coatings for

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high albedo targets, and the design of pervious pavements. Finally, Part Three focuses on self-healing pavements, addressing novel materials and design and performance. Finally, the book discusses the case of pavements with energy harvesting potential,

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addressing different technologies on this field. Offers a clear and concise lifecycle assessment of asphalt pavement recycling for greenhouse gas emission with temporal aspects Applies key research trends to green the pavement industry Includes techniques for recycling waste

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Materials, the design of cool pavements, self-healing mechanisms, and key steps in energy harvesting

Eco-efficient Construction and Building Materials reviews ways of assessing the environmental impact of construction and building

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**Materials.** Part one discusses the application of life cycle assessment (LCA) methodology to building materials as well as eco-labeling. Part two includes case studies showing the application of LCA methodology to different types of building material, from cement and concrete

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to wood and adhesives used in building. Part three includes case studies applying LCA methodology to particular structures and components. Reviews ways of assessing the environmental impact of construction and building materials Provides a thorough

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**Overview**, including strengths and shortcomings, of the life cycle assessment (LCA) and eco-labeling of eco-efficient construction and building materials Includes case studies showing the application of LCA methodology to different types of building material, from cement and

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concrete to wood and adhesives used  
in building

Nonconventional and Vernacular  
Construction Materials:  
Characterisation, Properties and  
Applications, Second Edition covers  
the topic by taking into account



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**E**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

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**Elsevier** contribute chapters on current applications and the engineering of these construction materials. Sections review vernacular construction, provide future directions for nonconventional and vernacular materials research, focus on natural fibers, and cover the use of industrial

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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

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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

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use of bio-based building materials (BBBM) 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

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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

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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



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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

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Electronics 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

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building materials: aggregates; timber, wood and bamboo; vegetable fibres; masonry; cement, concrete and cement 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

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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

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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

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**Elsevier** concrete Assesses the durability of sustainable construction materials including the utilisation of waste tyre rubber and vegetable fibres Collates a wealth of recent research including relevant case studies as well as an investigation into future trends

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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

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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 materials, the book goes on to consider key plastic materials. Materials responsible for



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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

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**Elsevier** 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

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based/recycled building materials, and the toxicity of nanoparticles. With its distinguished editors and international team of expert contributors, Toxicity of building materials is an invaluable tool for all civil engineers, materials researchers, scientists and educators working in

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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

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chapters focus on issues surrounding the use of radioactive materials and materials that release toxic fumes during burning

Bio-based Materials and  
Biotechnologies for Eco-efficient  
Construction fills a gap in the

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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

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biotechnologies for infrastructure applications, Bio-based materials and biotechnologies for building energy efficiency, and other applications, such as using biotechnology to reduce indoor air pollution, for water treatment, and in soil decontamination. The book will be an

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Essential reference resource for academic researchers, civil engineers, contractors working in construction works, postgraduate students and other professionals.

The construction of buildings and structures relies on having a



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thorough understanding of building materials. Without this knowledge it would not be possible to build safe, efficient and long-lasting buildings, structures and dwellings. Building materials in civil engineering provides an overview of the complete range of building materials available to civil

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Elgavier engineers and all those involved in the building and construction industries. The book begins with an introductory chapter describing the basic properties of building materials. Further chapters cover the basic properties of building materials, air hardening cement materials, cement,

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**Elective** concrete, building mortar, wall and roof materials, construction steel, wood, waterproof materials, building plastics, heat-insulating materials and sound-absorbing materials and finishing materials. Each chapter includes a series of questions, allowing readers to test the

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Knowledge they have gained. A detailed appendix gives information on the testing of building materials. With its distinguished editor and eminent editorial committee, Building materials in civil engineering is a standard introductory reference book on the complete range of

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building materials. It is aimed at students of civil engineering, construction engineering and allied courses including water supply and drainage engineering. It also serves as a source of essential background information for engineers and professionals in the civil engineering

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and construction sector. Provides an overview of the complete range of building materials available to civil engineers and all those involved in the building and construction industries Explores the basic properties of building materials featuring air hardening cement

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Materials, wall and roof materials and sound-absorbing materials Each chapter includes a series of questions, allowing readers to test the knowledge they have gained

Naturally Occurring Radioactive  
Materials in Construction (COST

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Building) discusses the depletion of energy resources and raw materials and its huge impact not only on the building market, but also in the development of new synthetic building materials, whereby the reuse of various (waste) residue streams becomes a necessity. It is based on



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The outcome of COST Action TU 1301, where scientists, regulators, and representatives from industry have come together to present new findings, sharing knowledge, experiences, and technologies to stimulate research on the reuse of residues containing enhanced

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**Electronics** concentrates of natural radionuclides (NORM) in tailor-made building materials. Chapters address legislative issues, measurement, and assessment of building materials, physical and chemical aspects, from raw materials, to residues with enhanced concentrations of natural

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radionuclides (NORM), processes, building products containing NORM, and end-of-life and reuse requirements. Presents a holistic approach in developing new reuse pathways involving experts on different (technical, chemical, physical, ecological, economical and

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radiological) aspects of materials  
Provides practical guidance that  
address questions and comments  
regarding the EU-BSS standards  
linked to the processing of NORM in  
building materials Investigates  
realistic legislative scenarios Primarily  
aimed at industry and actors linked to

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the industry, but also researchers  
Contains a strong international  
network of expert authors and  
internal reviewers for each chapter

Encyclopedia of Renewable and  
Sustainable Materials provides a  
comprehensive overview, covering

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Research and development on all aspects of renewable, recyclable and sustainable materials. The use of renewable and sustainable materials in building construction, the automotive sector, energy, textiles and others can create markets for agricultural products and additional

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Elsevier revenue streams for farmers, as well as significantly reduce carbon dioxide (CO<sub>2</sub>) emissions, manufacturing energy requirements, manufacturing costs and waste. This book provides researchers, students and professionals in materials science and engineering with tactics and

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information as they face increasingly complex challenges around the development, selection and use of construction and manufacturing materials. Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key



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features on processing, use,  
application and the environmental  
benefits of renewable and sustainable  
materials Contains a special focus on  
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reduction of carbon emissions and  
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