

# BUILDING MATERIALS LECTURE NOTES CIVIL ENGINEERING

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Environmental and Construction Engineering: Reality and the Future - Sergey Vasil'yevich Klyuev 2022-06-08

This book gathers the latest advances, innovations, and applications in the field of construction engineering, as presented by researchers and engineers at the International Conference Environmental and Construction Engineering: Reality and the Future, held in Belgorod, Russia, on May 18-19, 2021. It covers highly diverse topics, including industrial and civil construction, building materials; environmental engineering and sustainability; machines, aggregates and processes in construction. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

**Proceedings of SECON'21** - Giuseppe Carlo Marano 2022-09-05

This book gathers peer-reviewed contributions presented at the International Conference on Structural Engineering and Construction Management (SECON'21), held on 12-15 May 2021. The meeting served as a fertile platform for discussion, sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future. The respective contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and technical project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further investigations and research.

*Proceedings of the Second International Conference of Construction, Infrastructure, and Materials* - Han Ay Lie 2022-02-01

This book comprises selected proceedings of the 2nd International Conference of Construction, Infrastructure, and Materials (ICCIM 2021) focusing on topics such as structural engineering, construction materials, geotechnical engineering, transportation system and engineering, construction management, water resources

engineering, and infrastructure development. Its content will be useful to researchers, educators, practitioners, and policymakers alike.

*Advances in Sustainable Construction Materials* - Rathish Kumar Pancharathi 2020-04-17

This book presents select proceedings of the National Conference on Advances in Sustainable Construction Materials (ASCM 2019) held at the National Institute of Technology, Warangal, India. The book includes contributions from academics and practitioners on low-energy cement technologies, innovative materials and structural technologies towards cost-effective, environment friendly, durable, energy-efficient, and sustainable construction. The topics covered emphasize on cutting-edge, economically viable, and sustainable solutions with an aim to increase profitability, and decrease construction time and overall impact on the built environment. The book will be useful for researchers and practitioners interested in sustainable construction and allied fields.

Recent Advances in Materials, Mechanics and Structures - Suman Saha 2022-11-05

The book presents the select proceedings of the second International Conference on Materials, Mechanics and Structures (ICMMS 2022). The book highlights the latest developments, innovations and applications in the diverse range of areas of civil engineering. It covers the findings of recent research works across the globe on various topics such as civil engineering materials; concrete and masonry structures; composite structures; structural mechanics; fluid-structure interaction; repair, rehabilitation and retrofitting of the structures; new technologies in structural design and construction; bridge engineering, structural dynamics, earthquake engineering, etc. This book will be useful for beginners, researchers and professionals working in the different areas of civil engineering.

Sustainable Construction and Building Materials - Bibhuti Bhusan Das 2018-12-30

This book presents select proceedings of the International Conference on Sustainable Construction and

Building Materials (ICSCBM 2018), and examines a range of durable, energy-efficient, and next-generation construction and building materials produced from industrial wastes and byproducts. The topics covered include alternative, eco-friendly construction and building materials, next-generation concretes, energy efficiency in construction, and sustainability in construction project management. The book also discusses various properties and performance attributes of modern-age concretes including their durability, workability, and carbon footprint. As such, it offers a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

*Sustainable Construction Materials* - K. S. Satyanarayanan 2021-12-14

This book presents the select proceedings of the International Conference on Advances in Construction Materials and Management (ACMM 2021). It discusses the recent innovations towards construction management, building technology and new materials in practice in civil engineering. Various topics covered include architecture and urban planning, smart materials and structures, GIS in construction application, transportation materials and engineering, geotechnical applications in construction, energy and sustainability, green building technologies and materials and construction management. The book will be useful for beginners, researchers and professionals working in the area of civil engineering.

*Building Materials in Civil Engineering* - Haimei Zhang 2011-05-09

The construction of buildings and structures relies on having a 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 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, 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 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 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 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 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

*Advances in Structural Engineering* - K. V. L. Subramaniam 2020-05-13

This book contains selected papers in the area of structural engineering from the proceedings of the conference, Futuristic Approaches in Civil Engineering (FACE) 2019. In the area of construction materials, the book covers high quality research papers on raw materials and manufacture of cement, mixing, rheology and hydration, admixtures, characterization techniques and modeling, fiber-reinforced concrete, repair and retrofitting of concrete structures, novel testing techniques such as digital image correlation (DIC). Research on sustainable building materials like Geopolymer concrete and recycled aggregates are covered. In the area of earthquake engineering, papers related to the seismic response of load-bearing unreinforced masonry walls, reinforced concrete frame and buildings with dampers are covered. Additionally, there are chapters on structures subjected to vehicular impact and fire. The contents of this book will be useful for graduate students, researchers and practitioners working in the areas of concrete, earthquake and structural engineering.

*Building Construction and Materials* - Dr. Gurcharan Singh 2019-01-10

□ABOUT THE BOOK: feel proud in issuing the Seventh Edition of the book "Building Construction and Materials". The subject " Building Construction and Materials" is a very vast and tedious subject of Civil Engineering. Author has tried to explain all the aspects of this subject in a very simple and lucid language. The Book is entirely in SI Units. The book covers the syllabi prescribed by all the Indian universities, State Technical Boards and A.M.I.E. (India) examinations. The book is also very useful for Engineers involved in construction industry. All the relevant I.S.I. Recommendations and other useful data have been incorporated in the book. Author has tried to explain all the aspects with the help of lot of neat drawings. It is hoped that the book will satisfy all the needs of the students and practising engineers in regard to this subject. In order to increase the usefulness of the book basic engineering materials have been added in this revised 17th edition.

Basic engineering material like stone, bricks, lime, cement, timber and iron has been added in this edition. □RECOMMENDATIONS: A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations In S.I Units For Degree, Diploma and A.I.M.E. (India) Students and Practicing Civil Engineers.

□ABOUT THE AUTHOR: Dr. Gurcharan Singh Joint Director (Retd.) Directorate of Technical Education Rajasthan, Jodhpur □BOOK DETAILS: ISBN : 978-81-89401-21-4 Pages: 933 + 26 Edition: 17th,Year-2019 Size(cms): L-23.7, B-15.8, H-3.7 □For more Offers visit our Website: [www.standardbookhouse.com](http://www.standardbookhouse.com)

**GCEC 2017 - Biswajeet Pradhan 2018-05-12**

This book gathers the proceedings of the 1st Global Civil Engineering Conference, GCEC 2017, held in Kuala Lumpur, Malaysia, on July 25–28, 2017. It highlights how state-of-the-art techniques and tools in various disciplines of Civil Engineering are being applied to solve real-world problems. The book presents interdisciplinary research, experimental and/or theoretical studies yielding new insights that will advance civil engineering methods. The scope of the book spans the following areas: Structural, Water Resources, Geotechnical, Construction, Transportation Engineering and Geospatial Engineering applications.

**Proceedings of Italian Concrete Days 2018 - Marco di Prisco 2019-09-04**

This book gathers the best peer-reviewed papers presented at the Italian Concrete Days national conference, held in Lecco, Italy, on June 14-15, 2018. The conference topics encompass the aspects of design, execution, rehabilitation and control of concrete structures, with particular reference to theory and modeling, applications and realizations, materials and investigations, technology and construction techniques. The contributions amply demonstrate that today's structural concrete applications concern not only new constructions, but more and more rehabilitation, conservation, strengthening and seismic upgrading of existing premises, and that requirements cover new aspects within the frame of sustainability, including environmental friendliness, durability, adaptability and reuse of works and / or materials. As such the book represents an invaluable, up-to-the-minute tool, providing an essential overview of structural concrete, as well as all new materials with cementitious matrices.

*Proceedings of the 7th International Conference on Architecture, Materials and Construction - Paulo Mendonça 2022-02-01*

This book gathers the proceedings of the 7th International Conference on Architecture, Materials and Construction (ICAMC), held in Lisbon, Portugal on October 27-29, 2021. ICAMC serves as an international forum for the presentation of the latest technological advances and research results in the fields of architecture and urban planning, civil and structural engineering, and materials manufacturing and processing. As such, it explores highly diverse topics, including innovative construction technologies (computer and digital manufacturing) and materials (polymers, composites, etc.); traditional materials (glass, wood, steel, concrete, stone, brick, etc.) and its harmonic combination which can be achieved by evaluating their structural and non-structural properties; the key concepts of efficiency and sustainability related to the architectural design and engineering of new buildings; analysis, rehabilitation and restoration of buildings. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

**Proceedings of STCCE 2021 - Nikolai Vatin 2021-06-28**

This book gathers selected contributions in the field of civil and construction engineering, as presented by international researchers and engineers at the 2nd International Scientific Conference on Socio-Technical Construction and Civil Engineering (STCCE), held in Kazan, Russia on April 21-28 2021. The book covers a wide range of topics including building constructions and structures, bridges, roads and tunnels, building materials and products, construction management, energy efficiency and thermal protection of buildings, ventilation, air conditioning, gas supply and lighting in buildings, innovative and smart technologies in construction, sustainable development, transport system development. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

*Proceedings of the 5th International Conference on Sustainable Civil Engineering Structures and Construction Materials - Sheila Belayutham 2022-04-07*

This book compiles papers presented during the 5th International Conference on Sustainable Civil Engineering Structures and Construction Materials (SCESCM) held virtually in December 2020. This is the fifth edition of this conference series; the theme for the 5th SCESCM is “Transforming the World, Foster the Sustainable Development Goals (SDGs),” and it focuses on various issues, novel findings, as well as developments in the area of civil and infrastructure, conforming to the SDGs. This book caters to postgraduate students, researchers, and practitioners involved in advocating and embedding sustainability in various phases of design, construction and maintenance of civil engineering structures and infrastructure facilities.

**12th International Conference on Structural Engineering and Construction Management - Ranjith Dissanayake 2022-09-28**

This book highlights advances in the fields of civil engineering and construction industry with a particular focus on Structural Engineering and Construction Management. This book consists of top quality and innovative research papers selected from the proceedings of the 12th ICSECM 2021 under the themes of Innovations in Building Materials, Construction Management, Tall buildings, Concrete Technology and High Performance concrete, Geotechnical Engineering, Water and Waste Water Treatment, CKDu problem in Sri Lanka, Structural Health Monitoring & Design of Resistive Structures, Disaster Risk Reduction and Resilience in the Built Environment, Fibre Reinforced Polymer, Life Cycle Assessment of Buildings and Fire Safety Engineering.

*Sustainable Construction Materials - K. S. Satyanarayanan 2022-12-29*

This book presents the select proceedings of the International Conference on Advances in Construction

Materials and Management (ACMM 2021). It discusses the recent innovations towards construction management, building technology and new materials in practice in civil engineering. Various topics covered include architecture and urban planning, smart materials and structures, GIS in construction application, transportation materials and engineering, geotechnical applications in construction, energy and sustainability, green building technologies and materials and construction management. The book will be useful for beginners, researchers and professionals working in the area of civil engineering.

**Advances in Civil Engineering Materials - Ar Meor Mohammad Fared Bin Meor Razali 2021-04-29**

This book presents selected articles from the 4th International Conference on Architecture and Civil Engineering 2020, held in Kuala Lumpur, Malaysia. Written by leading researchers and industry professionals, the papers highlight recent advances and address the current issues in the fields of civil engineering and architecture.

**Advances in Construction Materials and Sustainable Environment - Ashok Kumar Gupta 2021-12-14**

This book comprises select papers presented at the International Conference on Construction Materials and Environment (ICCME 2020). The topics discussed revolve around the identification and utilization of novel construction materials primarily in the areas of structural engineering, geotechnical engineering, transportation engineering, and environmental engineering. The volume presents a compilation of thoroughly studied and utilized sustainable construction materials in different areas of civil engineering. Newly developed testing methodologies, physical modelling methods, numerical studies, and other latest techniques discussed in this book can prove to be useful for researchers and practitioners across the globe.

**Proceedings of SECON'21 - Giuseppe Carlo Marano 2021-09-03**

This book gathers peer-reviewed contributions presented at the International Conference on Structural Engineering and Construction Management (SECON'21), held on 12-15 May 2021. The meeting served as a fertile platform for discussion, sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future. The respective contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and technical project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further investigations and research.

**Proceedings of FORM 2021 - Pavel Akimov 2021-11-08**

This book gathers the latest advances, innovations, and applications in the field of environmental and construction engineering, as presented by international researchers at the XXIV International Scientific

Conference "Construction: The Formation of Living Environment", held in Moscow, Russia on April 22-24, 2021. It covers highly diverse topics, including sustainable innovative development of the construction industry, building materials, reliability of buildings and constructions and safety in construction, modelling and mechanics of building structures, engineering and smart systems in construction, climate change and urban environment. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

**Recent Advances in Structural Engineering, Volume 1 - A. Rama Mohan Rao 2018-08-01**

This book is a collection of select papers presented at the Tenth Structural Engineering Convention 2016 (SEC-2016). It comprises plenary, invited, and contributory papers covering numerous applications from a wide spectrum of areas related to structural engineering. It presents contributions by academics, researchers, and practicing structural engineers addressing analysis and design of concrete and steel structures, computational structural mechanics, new building materials for sustainable construction, mitigation of structures against natural hazards, structural health monitoring, wind and earthquake engineering, vibration control and smart structures, condition assessment and performance evaluation, repair, rehabilitation and retrofit of structures. Also covering advances in construction techniques/ practices, behavior of structures under blast/impact loading, fatigue and fracture, composite materials and structures, and structures for non-conventional energy (wind and solar), it will serve as a valuable resource for researchers, students and practicing engineers alike.

**Proceedings of the 5th International Conference on Sustainable Civil Engineering Structures and Construction Materials - Sheila Belayutham 2022-04-06**

This book compiles papers presented during the 5th International Conference on Sustainable Civil Engineering Structures and Construction Materials (SCESCM) held virtually in December 2020. This is the fifth edition of this conference series; the theme for the 5th SCESCM is "Transforming the World, Foster the Sustainable Development Goals (SDGs)," and it focuses on various issues, novel findings, as well as developments in the area of civil and infrastructure, conforming to the SDGs. This book caters to postgraduate students, researchers, and practitioners involved in advocating and embedding sustainability in various phases of design, construction and maintenance of civil engineering structures and infrastructure facilities.

**Advances in Construction Materials and Structures - Jaganathan Jayaprakash 2021-01-20**

This book comprises select and peer-reviewed proceedings of the International Conference on Recent Trends



in Construction Materials and Structures (ICON 2019). The contents cover various latest developments and emerging technologies in sustainable construction materials, utilization of waste materials in concrete, special concrete, maintenance of heritage structures, earthquake engineering, and structural dynamics. The book also provides effective and feasible solutions to current problems in sustainable construction materials and structures. This book is useful for students, researchers, and industry professionals interested in concrete technology and structures.

Proceedings of CEE 2019 - Zinoviy Blikharsky 2019-08-08

This book gathers the latest advances, innovations, and applications in the field of effective methods of calculation, resource-saving technologies and advanced materials in civil and environmental engineering, as presented by leading international researchers and engineers at the XVII International Scientific Conference Current Issues of Civil and Environmental Engineering “Lviv- Košice – Rzeszów”, held in Lviv, Ukraine on September 11-13, 2019. It covers highly diverse topics, including structural shaping and optimization; aspects of structural behavior and modeling; advanced analysis methods; experimental tests and numerical simulations; design codes, in particular Eurocodes and other national and regional limit state codes; and highway and bridges engineering. It also discusses modern architectural and structural solutions; innovative materials and products; durability and maintenance; fabrication and erection; sustainability in construction; renewable energy sources; heat, gas and water supply; ventilation and air-conditioning; ecological and energy-saving technologies, modern water-purification and treatment technologies; and the protection of water ecosystems. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Building Materials - S.K. Duggal 2017-12-04

This text on building materials includes discussion of structural clay products, rocks and stones, wood, materials for making concrete, ferrous and non-ferrous metals, and miscellaneous materials.

**Sustainable Building Materials and Construction** - B. Kondraivendhan 2022-05-13

This book presents the select proceedings of the International Conference on Sustainable Building Materials and Construction (ICSBMC 2021), and examines a range of durable, energy-efficient, advance construction and building materials produced from industrial wastes and byproducts. The topics covered include advanced construction materials, durability of concrete structures, waste utilization, repair & rehabilitation of concrete structures, structural analysis & design, composites, nanomaterials and smart materials in seismic engineering. The book also discusses various properties and performance attributes of modern-age concretes

including their strength, durability, workability, and carbon footprint. This book will be a precious reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

*BUILDING MATERIALS* - P.C. VARGHESE 2015-02-26

This practice-oriented book, now in its second edition, presents a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India. Profusely illustrated with tables and diagrams, the book brings into light the basics of building materials and their specifications. Besides giving information regarding the traditional building materials, the text now acquaints the reader with up-to-date and in-depth information pertaining to modern materials available in the market. The references to IS codes and standards make this text suitable for further study and field use. The second edition possesses some substantial changes in Chapters 12, 13, 14 and 20. Now, the book offers a new section on durability of concrete in Chapter 12; a modified section regarding revision of IS 10262 (1982) code on concrete mix design to IS 10262 (2009) and a new section on classification of exposure conditions in Chapter 13; and a new section relating to large advances made in concrete construction and repair chemicals in Chapter 14. Besides, the content of Chapter 20 has been completely updated, with a particular emphasis on the extensive use of aluminium in building construction. Primarily intended for the students pursuing undergraduate degree (B.E./B.Tech.) and diploma courses in civil engineering and architecture, the book, on account of lecture-based presentation of the subject, should also prove eminently utilitarian for the young teachers to use it in their classroom lectures as well as for practising engineers to get a clear understanding of the fundamentals of the subject. NEW TO THE SECOND EDITION Review questions at the end of each chapter enable the reader to recapitulate the topics Considerable attention is given on field practice Syllabus of laboratory work on construction materials and a model question paper (Anna University) are given in appendices to guide the reader.

**Advances in Civil Engineering** - Rao Martand Singh 2020-09-21

This volume comprises select peer reviewed papers presented at the international conference - Advanced Research and Innovations in Civil Engineering (ARICE 2019). It brings together a wide variety of innovative topics and current developments in various branches of civil engineering. Some of the major topics covered include structural engineering, water resources engineering, transportation engineering, geotechnical engineering, environmental engineering, and remote sensing. The book also looks at emerging topics such as green building technologies, zero-energy buildings, smart materials, and intelligent transportation systems. Given its contents, the book will prove useful to students, researchers, and professionals working in the field of civil engineering.

**Digital Technologies in Construction Engineering** - Sergey Vasil'yevich Klyuev 2021-11-30

This book gathers the latest advances, innovations, and applications in the field of construction engineering, as presented by researchers and engineers at the Digital Technologies in Construction Engineering conference, held in Belgorod, Russia, on June 8-9, 2021. It covers highly diverse topics, including industrial and civil construction, building materials; environmental engineering and protection; sustainability; structure safety and special construction structures. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

*Notes on Building Construction: Materials course for honors* - 1892

**Advances in Sustainable Construction Materials** - Sabyasachi Biswas 2021-04-10

This book presents select proceedings of National Conference on Advances in Sustainable Construction Materials (ASCM 2020) and examines a range of durable, energy-efficient, and next-generation construction materials produced from industrial wastes and by-products. The topics covered include sustainable materials and construction, innovations in recycling concrete, green buildings and innovative structures, utilization of waste materials in construction, geopolymer concrete, self-compacting concrete by using industrial waste materials, nanotechnology and sustainability of concrete, environmental sustainability and development, recycling solid wastes as road construction materials, emerging sustainable practices in highway pavements construction, plastic roads, pavement analysis and design, application of geosynthetics for ground improvement, sustainability in offshore geotechnics, green tunnel construction technology and application, ground improvement techniques and municipal solid waste landfill. Given the scope of contents, the book will be useful for researchers and professionals working in the field of civil engineering and especially sustainable structures and green buildings.

*Sustainable Building Materials and Construction* - B. Kondraivendhan 2022-05-14

This book presents the select proceedings of the International Conference on Sustainable Building Materials and Construction (ICSBMC 2021), and examines a range of durable, energy-efficient, advance construction and building materials produced from industrial wastes and byproducts. The topics covered include advanced construction materials, durability of concrete structures, waste utilization, repair & rehabilitation of concrete structures, structural analysis & design, composites, nanomaterials and smart materials in seismic engineering. The book also discusses various properties and performance attributes of modern-age concretes including their strength, durability, workability, and carbon footprint. This book will be a precious reference for

beginners, researchers, and professionals interested in sustainable construction and allied fields.

**Modern Applications of Geotechnical Engineering and Construction** - Mahdi O. Karkush 2021-12-23

This book contains select papers from the International Conference on Geotechnical Engineering Iraq discussing the challenges, opportunities, and problems of application of geotechnical engineering in projects. The contents cover a wide spectrum of themes in geotechnical engineering, including but not limited to sustainability & geotechnical engineering, modeling of foundations & slope stability, seismic analysis & soil mechanics, construction materials, and construction & management of projects. This volume will prove a valuable resource for practicing engineers and researchers in the field of geotechnical engineering, structural engineering, and construction and management of projects. ^

**Proceedings of STCCE 2022** - Nikolai Vatin 2022-09-29

This book gathers selected contributions in the field of civil and construction engineering, as presented by international researchers and engineers at the 3rd International Scientific Conference on Socio-Technical Construction and Civil Engineering (STCCE), held in Kazan, Russia on April 21-29 2022. The book covers a wide range of topics including building constructions and structures, bridges, roads and tunnels, building materials and products, energy efficiency and thermal protection of buildings, ventilation, air conditioning, gas supply and lighting in buildings, innovative and smart technologies in construction, transport system development. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

**Proceedings of EcoComfort 2020** - Zinoviy Blikharsky 2021-08-18

This book gathers the latest innovations and applications in the field of resource-saving technologies and advanced materials in civil and environmental engineering, as presented by leading international researchers and engineers at the 2nd International Scientific Conference EcoComfort and Current Issues of Civil Engineering, held in Lviv, Ukraine on September 16-18, 2020. It covers a diverse range of topics, including ecological and energy-saving technologies; renewable energy sources; heat, gas and water supply; microclimate provision systems; innovative building materials and products; smart technologies in water purification and treatment; protection of water ecosystems; and architectural shaping and structural solutions. The contributions, which were selected using a rigorous international peer-review process, highlight exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

*Materials for Civil and Construction Engineers: Pearson New International Edition* - Michael S. Mamlouk 2013-08-27

For courses in Civil Engineering Materials, Construction Materials, and Construction Methods and Materials offered in Civil, Environmental, or Construction engineering departments. This introduction gives students a basic understanding of the material selection process and the behavior of materials – a fundamental requirement for all civil and construction engineers performing design, construction, and maintenance. The authors cover the various materials used by civil and construction engineers in one useful reference, limiting the vast amount of information available to the introductory level, concentrating on current practices, and extracting information that is relevant to the general education of civil and construction engineers. A large number of experiments, figures, sample problems, test methods, and homework problems gives students opportunity for practice and review.

*Modern Applications of Geotechnical Engineering and Construction* - Mahdi O. Karkush 2020-12-21

This book contains select papers from the International Conference on Geotechnical Engineering Iraq discussing the challenges, opportunities, and problems of application of geotechnical engineering in projects. The contents cover a wide spectrum of themes in geotechnical engineering, including but not limited to sustainability & geotechnical engineering, modeling of foundations & slope stability, seismic analysis & soil mechanics, construction materials, and construction & management of projects. This volume will prove a

valuable resource for practicing engineers and researchers in the field of geotechnical engineering, structural engineering, and construction and management of projects. ^

*ICACE 2019* - Mokhtar Awang 2020-02-27

This book presents selected articles from the 3rd International Conference on Architecture and Civil Engineering 2019, held in Kuala Lumpur, Malaysia. Written by leading researchers and industry professionals, the papers highlight recent advances and addresses current issues in the fields of civil engineering and architecture.

*Advances in Sustainable Construction Materials and Geotechnical Engineering* - Sanjay Kumar Shukla 2019-07-02

This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2018). The topics covered include the utilization of industrial by-products as construction materials, sustainable and green materials in construction applications, and latest measures adopted for stabilization techniques. The book also discusses recent advances and techniques related to geotechnical and concrete domain that can be used as a reference guide for various researchers and practitioners around the globe.