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eWork and eBusiness in Architecture, Engineering and Construction: ECPPM 2016 Nov 29 2020 eWork and eBusiness in Architecture, Engineering and Construction 2016 collects the papers presented at the 11th European Conference on Product & Process Modelling (ECPPM 2016, Cyprus, 7-9 September 2016), The contributions cover complementary thematic areas that hold great promise for the advancement of research and technological development in the modelling of complex engineering systems, encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT deployment instances in AEC/FM, including: • Information and Knowledge Management • Construction Management • Description Logics and Ontology Application in AEC • Risk Management • 5D/nD Modelling, Simulation and Augmented Reality • Infrastructure Condition Assessment • Standardization of Data Structures • Regulatory and Legal Aspects • Multi-Model and distributed Data Management • System Identification • Industrialized Production, Smart Products and Services • Interoperability • Smart Cities • Sustainable Buildings and Urban Environments • Collaboration and Teamwork • BIM Implementation and Deployment • Building Performance Simulation • Intelligent Catalogues and Services

Building for a Changing Culture and Climate Oct 17 2019 The author of this book aims to encourage an awareness of sustainability as it is implemented across all areas of planning and design, and the ability to think and act on this knowledge. This book will explore in genuine depth the sustainable strategies that could be applied, along with the practical work of key figures in the built environment, setting these against historical experiences and traditional cultures. It also aims to revive the discourse around these subjects. Achieving this will require the involvement of architects and structural, energy and environmental engineers, construction businesses and specialists, research institutes and universities. The five chapters and 333 show-cased projects reflect important stages in the architectural and engineering-based design process, stages which need to be addressed when dealing with sustainable strategies in the built environment.

The Architect's Studio Companion Aug 27 2020 THE ARCHITECT'S STUDIO COMPANION The latest edition of the guidebook every architect needs at their fingertips, updated and expanded throughout Start your designs on solid ground with The Architect's Studio Companion! This comprehensive handbook provides everything you need for the preliminary selecting, configuring, and sizing of the structural, environmental, safety, accessibility, and parking systems of a building. Edward Allen and Joseph Iano, authors of the market-leading Fundamentals of Building Construction, use their trademark talent for boiling down complex technical requirements into easy-to-use, time-saving guidelines for the engineering and architectural design of buildings. The new seventh edition is updated with new building codes, new information on heating and cooling systems for buildings, new structural systems, new requirements for tall mass timber buildings, and more. Throughout the text, straightforward diagrams and user-friendly explanations help you lay out the most important systems of a building in a matter of minutes without stressing about complicated technical concepts. Use this guide to introduce building systems into the early stages of design, and greatly reduce the need for later revisions or redesign???and keep your projects on time and on budget. Streamline your design process today with The Architect's Studio Companion: Explore alternative structural systems quickly and efficiently Compare the carbon impacts of alternative system choices... at a glance Stay current with the latest information about tall mass timber buildings Access information on high-performance heating and cooling systems, passive design, natural daylighting, and other sustainable design strategies with ease Incorporate U.S. and Canadian building code requirements and accessibility regulations into your designs More than just a reference, The Architect's Studio Companion, Seventh Edition is a must-have companion that no practicing architect or student should be without.

Delivering Value with BIM May 24 2020 Building Information Modelling (BIM) is a global phenomenon which is gaining significant momentum across the world. Currently there is little information on how to realise and monitor benefits from implementing BIM across the life-cycle of a built environment asset. This book provides a practical and strategic framework to realise value from implementing BIM by adapting Benefit Realisation Management theory. It presents an approach for practitioners aiming to implement BIM across the life-cycle of built environment assets, including both buildings and infrastructure. Additionally, the book features: wide-ranging information about BIM, the challenges of monitoring progress towards benefit goals and the greater context of implementation; a set of dictionaries that illustrate: how benefits can be achieved, what the benefit flows are and the enabling tools and processes that contribute to achieving and maximising them; a suite of measures that can serve to monitor progress with examples of how they have been used to measure benefits from BIM; real-world examples from across the world and life-cycle phases that show how these benefits can be achieved; and information on international maturity and competency measures to complement the value realisation framework. Including a blend of academic and industry input, this book has been developed in close collaborative consultation with industry, government and international research organisations and could be used for industry courses on BIM benefits and implementation for asset management or by universities that teach BIM-related courses.

New York Construction Law Manual Jun 17 2022 A practical manual for attorneys, contractors, architects, engineers, and developers, New York Construction Law Manual covers virtually every legal issue involved in building structures in New York state. The authors summarize statutes, regulations, and cases, and provide a wide range of research references, practice pointers, lists, charts, and other time-saving aids.

Standard 189.1-2014 User's Manual Jan 24 2023 "Helps users of ASHRAE/USGC/IES Standard 189.1-2014 understand its principles and requirements and how to comply with them. The manual is intended for architects, engineers, contractors, and other building professionals, and is also suitable for use in educational programs"--

CAA2014: 21st Century Archaeology Aug 07 2021 This volume brings together a selection of papers proposed for the Proceedings of the 42nd Computer Applications and Quantitative Methods in Archaeology conference (CAA), hosted at Paris 1 Pantheon-Sorbonne University from 22nd to 25th April 2014.

Numerical Methods in Geotechnical Engineering IX, Volume 2 Oct 29 2020 Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE2018, Porto, Portugal, 25—27 June 2018). The papers cover a wide range of topics in the field of computational geotechnics, providing an overview of recent developments on scientific achievements, innovations and engineering applications related to or employing numerical methods. They deal with subjects from emerging research to engineering practice, and are grouped under the following themes: Constitutive modelling and numerical implementation Finite element, discrete element and other numerical methods. Coupling of diverse methods Reliability and probability analysis Large deformation – large strain analysis Artificial intelligence and neural networks Ground flow, thermal and coupled analysis Earthquake engineering, soil dynamics and soil-structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns (and pipelines) Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the objectives of previous eight thematic conferences, (1986 Stuttgart, Germany; 1990 Santander, Spain; 1994 Manchester, United Kingdom; 1998 Udine, Italy; 2002 Paris, France; 2006 Graz, Austria; 2010 Trondheim, Norway; 2014 Delft, The Netherlands), Numerical Methods in Geotechnical Engineering IX updates the state-of-the-art regarding the application of numerical methods in geotechnics, both in a scientific perspective and in what concerns its application for solving practical boundary value problems. The book will be much of interest to engineers, academics and professionals involved or interested in Geotechnical Engineering. This is volume 2 of the NUMGE 2018 set.

Mergent Municipal & Government Manual Feb 01 2021

Bio-based Building Skin Dec 19 2019 This book provides a compendium of material properties, demonstrates several successful examples of bio-based materials' application in building facades, and offers ideas for new designs and novel solutions. It features a state-of-the-art review, addresses the latest trends in material selection, assembling systems, and innovative functions of facades in detail. Selected case studies on buildings from diverse locations are subsequently presented to demonstrate the successful implementation of various biomaterial solutions, which defines unique architectural styles and building functions. The structures, morphologies and aesthetic impressions related to bio-based building facades are discussed from the perspective of art and innovation; essential factors influencing the performance of materials with respect to functionality and safety are also presented. Special emphasis is placed on assessing the performance of a given facade throughout the service life of a building, and after its end. The book not only provides an excellent source of technical and scientific information, but also contributes to public awareness by demonstrating the benefits to be gained from the proper use of bio-based materials in facades. As such, it will appeal to a broad audience including architects, engineers, designers and building contractors.

Heating and Cooling of Buildings Feb 13 2022 Heating and Cooling of Buildings: Principles and Practice of Energy Efficient Design, Third Edition is structured to provide a rigorous and comprehensive technical foundation and coverage to all the various elements inherent in the design of energy efficient and green buildings. Along with numerous new and revised examples, design case studies, and homework problems, the third edition includes the HCB software along with its extensive website material, which contains a wealth of data to support design analysis and planning. Based around current codes and standards, the Third Edition explores the latest technologies that are central to design and operation of today's buildings. It serves as an up-to-date technical resource for future designers, practitioners, and researchers wishing to acquire a firm scientific foundation for improving the design and performance of buildings and the comfort of their occupants. For engineering and architecture students in undergraduate/graduate classes, this comprehensive textbook:

The Complete Do-it-Yourself Manual Newly Updated Sep 27 2020 The leading manual for home improvements is getting an update to address current codes, latest materials, tools and technology. The bestselling, most comprehensive guide to home improvements has been revised and updated once again since it's revision in 2005. Over 10 million copies of READER'S DIGEST COMPLETE DO-IT-YOURSELF MANUAL have been sold since it's original publication in 1973. In 2005, the manual got bigger and better than ever, when The Family Handyman and Reader's Digest joined forces and completely revised, updated, rewrote, and redesigned this home improvement classic. Now in 2014, The Family Handyman has once again updated and revised this do-it-yourself classic to make it relevant to today's homeowners and DIYers.. Written in a style of text that addresses readers in a very accessible, conversational tone for easy, user-friendly assistance with every do-it-yourself task. All instructions and materials have been updated to address current codes (electrical, plumbing and building), and revised to indicate the very latest in materials, tools, and technology. Suitable for beginners and experts alike, this newly revised edition includes: • Over 3,000 photos and illustrations to make complex projects and repairs easy to understand • Twice as many storage projects that help home owners cut clutter • New building materials that yield great-looking, long-lasting results—and low maintenance! • New technology that lets homeowners save energy, add convenience or improve security. • New building codes that make homes safer, more energy-efficient and trouble-free. The book's tried-and-true instructions provide do-it-yourself solutions to a ton of problems that could cost a fortune if you had to hire a professional. This manual is a "must-have" reference guide for every home-owning man or woman.

Construction Technology for Tall Buildings May 16 2022 This 5th edition covers the latest practices and processes of various alternative methods for the construction of tall buildings from foundation to roof. The text progresses through the stages of site investigation, excavation and earthmoving, foundation construction, basement construction, structural systems for the superstructure, site and material handling, wall and floor construction, external wall and roof construction. The planning, safety and environmental considerations, methods, materials, equipment, and construction sequence of the various proprietary systems for each of these respectively stages are discussed. The target readers are practitioners and students in building and construction professions including architecture, engineering, project and facilities management, building and construction management, real estate, quantity and land surveying.

Integrating Information in Built Environments Mar 22 2020 In an increasingly globalised built environment industry, achieving higher levels of integration across organisational and software boundaries can lead to improved economic, social and environmental outcomes. This book is the direct result of a collaborative global network of industry and academic researchers spread across nine countries as part of CIB's (International Council for Research and Innovation in Building and Construction) Task Group 90 (TG90) Information Integration in Construction (IICON). The book provides a broad view of some of the opportunities and challenges brought by integrating information across organisational and system boundaries in the built environment industry. Chapters cover a large range of topics and are separated into three sections: resources, processes and added value. They provide a much-needed international perspective on a current global evolution in the industry and present leading original research and valuable lessons for researchers, industry practitioners, government clients and policy makers across the industry. Key features include: a broad range of topics that are not covered elsewhere in the literature; contributions from a diverse group of industry research leaders from across the globe; exemplar case studies providing real-world examples of where information integration has been a key factor for success or lack thereof has been at the root cause of failure; an analysis of future priority areas for research and development investment as well as their strategic implications for public and private decision-makers; the book will deliver innovation in best practice methodology for information sharing across disciplines and between the design, construction and asset management sectors.

Artificial Intelligence in Construction Engineering and Management Dec 31 2020 This book highlights the latest technologies and applications of Artificial Intelligence (AI) in the domain of construction engineering and management. The construction industry worldwide has been a late bloomer to adopting digital technology, where construction projects are predominantly managed with a heavy reliance on the knowledge and experience of construction professionals. AI works by combining large amounts of data with fast, iterative processing, and intelligent algorithms (e.g., neural networks, process mining, and deep learning), allowing the computer to learn automatically from patterns or features in the data. It provides a wide range of solutions to address many challenging construction problems, such as knowledge discovery, risk estimates, root cause analysis, damage assessment and prediction, and defect detection. A tremendous transformation has taken place in the past years with the emerging applications of AI. This enables industrial participants to operate projects more efficiently and safely, not only increasing the automation and productivity in construction but also enhancing the competitiveness globally.

Modern Concrete Construction Manual Nov 22 2022 A construction material that once was innovative and modern and then fell somewhat into disrepute through some of the quite radical post-war architecture, concrete is today very popular with planners and builders due to its multifaceted nature. The material offers enormous potential through its extensive load-bearing capacities but also due to the diversity of its properties and surface characteristics. In addition to the technical possibilities customarily attributed to concrete construction, the construction material is on the ascendant not least due to the current debate regarding energy efficiency and sustainability, since it seems tailor-made for the realization of the relevant requirements. It is not just the design and construction of concrete load-bearing structures that are the focus of this publication, but also the materiality and thus the haptic and sensuous side of the material in particular. That's because visible concrete in "smooth gray flawless" quality is not everything that concrete has to offer. Even designers and interior decorators develop furniture and space innovations of unimagined sensuality. The Modern Concrete Construction Manual provides the planner with well-founded expert information regarding the construction material of concrete, ranging from manufacturing to materiality to the design of concrete load-bearing structures, including current options for digital design and production processes. As a standard reference volume, the publication offers comprehensive and detailed insights regarding topics including cost-effectiveness, energy and sustainability, renovation, design and interior decoration. An extensive index of works with successful real-life examples provides inspiration and invites the reader to make modern use of a classical construction material.

Advanced Modelling Techniques in Structural Design Dec 11 2021 The successful design and construction of iconic new buildings relies on a range of advanced technologies, in particular on advanced modelling techniques. In response to the increasingly complex buildings demanded by clients and architects, structural engineers have developed a range of sophisticated modelling software to carry out the necessary structural analysis and design work. Advanced Modelling Techniques in Structural Design introduces numerical analysis methods to both students and design practitioners. It illustrates the modelling techniques used to solve structural design problems, covering most of the issues that an engineer might face, including lateral stability design of tall buildings; earthquake; progressive collapse; fire, blast and vibration analysis; non-linear geometric analysis and buckling analysis . Resolution of these design problems are demonstrated using a range of prestigious projects around the world, including the Buji Khalifa; Willis Towers; Taipei 101; the Gherkin; Millennium Bridge; Millau viaduct and the Forth Bridge, illustrating the practical steps required to begin a modelling exercise and showing how to select appropriate software tools to address specific design problems.

Sustainable Construction Processes Dec 23 2022 This book explores the concepts and practicalities that lead to sustainable construction. It breaks new ground by providing the reader with the underlying principles of how to build sustainably and then assesses many of the tools required for the task. From energy to materials and from procurement to operation, all aspects play their part in turning a theoretically sustainable building project into a reality. There are many guidelines for the designer on how to maximise the sustainability of buildings but this resource text supplements these by focusing on the construction and operational aspects of sustainable buildings, as well as some of the more fundamental design-related considerations. • Offers an excellent text for those learning to construct, design and operate sustainable buildings. • Covers the drivers for sustainable construction, definitions, historical impacts, climate change and global, regional and individual responses. • enables the construction professional to achieve optimum solutions, both in design, process and the aftercare of buildings. • evaluates the effectiveness of different renewable technologies and provides guidance on the practicalities of their use. • Alerts the reader to future trends in this field.

Sustainable Building Design Sep 20 2022 An inside view of how one of the world's leading architecture and engineering practice does business Sustainable Built Environments: Principles and Practice offers detailed, environmentally sound design solutions to a wide range of building engineering challenges. The text uses case examples and project data provided by engineers and designers at Arup Associates. It covers a broad range of relevant issues, with focused commentaries and explanations presented in an accessible format for use by students, busy practitioners and informed clients. Whilst this book stresses the importance of a unified approach to design, the text is divided into six principal chapters, each addressing an important aspect of sustainable architecture and engineering. These chapters (Master Planning, Transport, Energy, The Building Envelope, Environmental Services, and Materials) may be read on their own or in sequence as part of a narrative. Throughout the book, photographs, architectural and engineering drawings and diagrams, examples, and other data illustrate the case studies. Numerous web links are provided to additional information. This inspirational book: Focuses on the work of Arup Associates, the award winning architectural and engineering practice Uses real-life examples of functioning buildings and structures to provide information and guidance on the development of sustainable solutions Is packed with informative illustrations Sustainable Built Environments: Principles and Practice is a unique text that will inform and inspire architects and engineers, as well as students of those disciplines, around the globe.

2014 International Conference on Social Science and and Environment Protection (SSEP2014) Jul 18 2022 This conference promises to be both informative and stimulating with a wonderful program. Delegates will have a wide range of sessions to choose from and will have a difficult to choose which session to attend. The program consists of invited session, technical

workshop and discussions covering a wide range of topics in social science including communication, culture, economics, education, finance, law, management, politics, psychology and society. This rich program provides all attendees with the opportunities to meet and interact with one another. We hope that your experience with SSEP2014 is a fruitful and long lasting one.

Residential Asphalt Roofing Manual Design and Application Methods 2014 Edition Oct 09 2021 This manual is designed to provide practical information to those who sell and install asphalt roofing, and is intended to be a reference book of application techniques.

Innovation in TBM Traffic Tunnels May 04 2021 Tunnel Boring Machine (TBM) constructed tunnels are widespread, and can deliver significant environmental and cost benefits. However, as noted in the noteworthy examples of TBM traffic tunnels presented in this book, there are still important challenges associated with them, linked in particular to structural safety in the event of earthquakes, as well as cost and safety issues during operation. To face these challenges, Innovation in TBM Traffic Tunnels presents three innovative concepts in the field of construction of TBM rail and road tunnels: the TISB concept that improves the structural safety of those built on soft soil in seismic areas, and the TMG and TMF concepts, for rail and road tunnels, respectively, that allow for significant reduction of their cost and the improvement of safety during operation. Examples of the application of these new concepts in the conceptual design of specific tunnel cases are presented and compared with solutions based on common approaches, demonstrating the additional benefits of these concepts. The book also draws attention to other innovations in TBM tunnelling that may improve the construction of tunnels in the future, especially when using the concepts mentioned above. Innovation in TBM Traffic Tunnels is aimed at professionals involved in the planning, design, and construction of tunnels for transport infrastructure, including authorities, consultants and construction companies, worldwide.

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions Apr 15 2022 Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions contains invited, keynote and theme lectures and regular papers presented at the 7th International Conference on Earthquake Geotechnical Engineering (Rome, Italy, 17-20 June 2019). The contributions deal with recent developments and advancements as well as case histories, field monitoring, experimental characterization, physical and analytical modelling, and applications related to the variety of environmental phenomena induced by earthquakes in soils and their effects on engineered systems interacting with them. The book is divided in the sections below: Invited papers Keynote papers Theme lectures Special Session on Large Scale Testing Special Session on Liquefaction Projects Special Session on Lessons learned from recent earthquakes Special Session on the Central Italy earthquake Regular papers Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions provides a significant up-to-date collection of recent experiences and developments, and aims at engineers, geologists and seismologists, consultants, public and private contractors, local national and international authorities, and to all those involved in research and practice related to Earthquake Geotechnical Engineering.

IMF Publications Catalog, Fall/Winter 2017 Jul 06 2021 This paper discusses about countries that must chart their own paths to effectively balance the potential benefits against the risks and challenges, including institutional and capacity constraints, privacy concerns, and new avenues for fraud and evasion. The digital revolution holds vast potential for fiscal policies. By transforming the way fiscal systems collect, process, and act on information, it can expand and reshape the way governments design and implement their tax, spending, and macro-fiscal policies. Countries will need to chart a path based on their individual circumstances—either by taking incremental steps to digitize, or by leapfrogging to newer and more sophisticated methods of policy formulation and implementation. A recurring theme in this book is the need for greater regional coordination in finding solutions to address the Caribbean’s shared and intertwined macroeconomic and structural challenges. The analysis suggests that strengthening regional and global market integration of Caribbean economies would provide an impetus to sustained growth in incomes and jobs.

Security and Privacy in Communication Networks Sep 08 2021 This book constitutes the refereed conference proceedings of the 12th International Conference on Security and Privacy in Communications Networks, SecureComm 2016, held in Guangzhou, China, in October 2016. The 32 revised full papers and 18 poster papers were carefully reviewed and selected from 137 submissions. The papers are organized thematically starting with mobile and network security, followed by applied cryptography, web security and privacy, system security, hardware security. The volume also includes papers from the ATCS workshop and the poster session.

National Building Cost Manual 2014 Feb 25 2023 "Published November 2012 for the year 2013"--Title page verso.

Information Resources in Toxicology Aug 19 2022 This new fifth edition of Information Resources in Toxicology offers a consolidated entry portal for the study, research, and practice of toxicology. Both volumes represents a unique, wide-ranging, curated, international, annotated bibliography, and directory of major resources in toxicology and allied fields such as environmental and occupational health, chemical safety, and risk assessment. The editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology’s subdisciplines. This edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools. Due to the increasing size of the hardcopy publication, the current edition has been divided into two volumes to make it easier to handle and consult. Volume 1: Background, Resources, and Tools, arranged in 5 parts, begins with chapters on the science of toxicology, its history, and informatics framework in Part 1. Part 2 continues with chapters organized by more specific subject such as cancer, clinical toxicology, genetic toxicology, etc. The categorization of chapters by resource format, for example, journals and newsletters, technical reports, organizations constitutes Part 3. Part 4 further considers toxicology’s presence via the Internet, databases, and software tools. Among the miscellaneous topics in the concluding Part 5 are laws and regulations, professional education, grants and funding, and patents. Volume 2: The Global Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries, followed by a glossary of toxicological terms and an appendix of popular quotations related to the field. The book, offered in both print and electronic formats, is carefully structured, indexed, and cross-referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed. Among the many timely topics receiving increased emphasis are disaster preparedness, nanotechnology, -omics, risk assessment, societal implications such as ethics and the precautionary principle, climate change, and children’s environmental health. Introductory chapters provide a backdrop to the science of toxicology, its history, the origin and status of toxicoinformatics, and starting points for identifying resources. Offers an extensive array of chapters organized by subject, each highlighting resources such as journals, databases, organizations, and review articles. Includes chapters with an emphasis on format such as government reports, general interest publications, blogs, and audiovisuals. Explores recent internet trends, web-based databases, and software tools in a section on the online environment. Concludes with a miscellany of special topics such as laws and regulations, chemical hazard communication resources, careers and professional education, K-12 resources, funding, poison control centers, and patents. Paired with Volume Two, which focuses on global resources, this set offers the most comprehensive compendium of print, digital, and organizational resources in the toxicological sciences with over 120 chapters contributions by experts and leaders in the field.

Forensic Engineering Nov 10 2021 Serving as a comprehensive resource that builds a bridge between engineering disciplines and the building sciences and trades, Forensic Engineering: Damage Assessments for Residential and Commercial Structures, Second Edition provides an extensive look into the world of forensic engineering. Focusing on investigations associated with insurance industry claims, the book describes methodologies for performing insurance-related investigations, including the causation and origin of damage to residential and commercial structures and/or unhealthy interior environments and adverse effects on the occupants of these structures. Edited by an industry expert with more than 40 years of experience and contributors with more than 100 years of experience in the field, the book takes the technical aspects of engineering and scientific principles and applies them to real-world issues in a nontechnical manner. The book provides readers with the experiences, investigation methodologies, and investigation protocols used in and derived from thousands of forensic engineering investigations. FEATURES Covers 24 topics in forensic engineering based on thousands of actual field investigations Provides a proven methodology based on engineering and scientific principles, experience, and common sense to determine the causes of forensic failures pertaining to residential and commercial properties Includes references to many codes, standards, technical literature, and industry best practices Illustrates detailed and informative examples utilizing color photographs and figures for industry best practices as well as to identify improper installations Combines information from a multitude of resources into one succinct, easy-to-use guide This book details proven methodologies based on over 10,000 field investigations in which the related strategies can be practically applied and appreciated by both professionals and laymen alike.

Integrated Design and Construction - Single Responsibility Mar 14 2022 Manufacturing and service industries have significantly improved their levels of productivity, quality, and profitability over the past 30 years, whereas in the construction industry similar levels of improvement have been impossible to achieve. Numerous reports have identified fragmentation of the industry’s management structures and processes as the underlying cause of the waste and inefficiencies that keep costs high and margins low. Integrated Design and Construction is an integrated yet competitive form of procurement, design and project delivery based on the principle of purchasing any other high value warranted manufactured product. Such an approach would make the construction process more like other manufacturing industries, allowing contractors to make similar improvements to those already seen in other manufacturing industries. Designed for use by experienced construction professionals, familiar and proficient with traditional design and construction system best practice, this Code of Practice provides both client and constructor with the necessary information to adopt this approach to create well-designed and well-constructed products, fully meeting client needs.

Data-Driven Modeling for Sustainable Engineering Jan 20 2020 This book gathers the proceedings of the 1st International Conference on Engineering, Applied Sciences and System Modeling (ICEASSM), a four-day event (18th–21st April 2017) held in Accra, Ghana. It focuses on research work promoting a better understanding of engineering problems through applied sciences and modeling, and on solutions generated in an African setting but with relevance to the world as a whole. The book provides a holistic overview of challenges facing Africa, and addresses various areas from research and development perspectives. Presenting contributions by scientists, engineers and experts hailing from a host of international institutions, the book offers original approaches and technological solutions to help solve real-world problems through research and knowledge sharing. Further, it explores promising opportunities for collaborative research on issues of scientific, economic and social development, making it of interest to researchers, scientists and practitioners looking to conduct research in disciplines such as water supply, control, civil engineering, statistical modeling, renewable energy and sustainable urban development.

Managing Building Deterioration Feb 19 2020 This book presents the results of a novel investigation into building deterioration and defects in Malaysia’s public schools. It sets forth an in-depth theoretical and empirical underpinning the maintenance management of public schools with the view to develop a building deterioration prediction model of building condition based on factors contributing to building defects for school buildings. The approach adopted is mixed method encompassing archived documentation, questionnaire survey and interview of sampled schools in Malaysia. It presents a number of useful tables, graphs and statistical analysis which are useful in understanding the factors contributing to building defects under reference. The prediction model assists the decision making of maintenance management to be more efficient with comprehensive budgeting as well as optimal maintenance and repair work. The book is of relevance to school managers, maintenance management practitioners and academics towards measuring and improving the building condition in schools.

Climate Change and Gender in Rich Countries Jan 12 2022 Climate change is at the forefront of ideas about public policy, the economy and labour issues. However, the gendered dimensions of climate change and the public policy issues associated with it in wealthy nations are much less understood. Climate Change and Gender in Rich Countries covers a wide range of issues dealing with work and working life. The book demonstrates the gendered distinctions in both experiences of climate change and the ways that public policy deals with it. The book draws on case studies from the UK, Sweden, Australia, Canada, Spain and the US to address key issues such as: how gendered distinctions affect the most vulnerable; paid and unpaid work; and activism on climate change. It is argued that including gender as part of the analysis will lead to more equitable and stronger societies as solutions to climate change advance. This volume will be of great relevance to students, scholars, trade unionists and international organisations with an interest in climate change, gender, public policy and environmental studies.

School Buildings Jul 26 2020 Flexibility, safety and accessibility: in addition to the current technical, energy and environmental standards, school buildings require innovative structural solutions which extend far beyond the building design. The authors guide the reader through the cultural development of school buildings, presenting stakeholders as well as historical and contemporary learning concepts, defining organizational tasks, formulating quality standards of contemporary learning and working as well as presenting typologies and spatial organizational models, which were created in cooperation with the foundation, the Montag Stiftung, as part of the project Guidelines for Productive School Buildings. 32 international school buildings are presented through detailed drawings and photographs, arranged according to their levels of education. Ten design parameters for school construction round off this practical design manual. With contributions by Natascha Meuser, Hans Wolfgang Hoffmann, Thomas Müller and Jochem Schneider

Proceedings of the 23rd International Symposium on Advancement of Construction Management and Real Estate Jun 24 2020 This book presents the proceedings of CRIOCM2018, 23rd International Symposium on Advancement of Construction Management and Real Estate, sharing the latest developments in real estate and construction management around the globe. The conference was organized by the Chinese Research Institute of Construction Management (CRIOCM) working in close collaboration with Guizhou Institute of Technology (GIT). Written by international academics and professionals, the proceedings discuss the latest achievements, research findings and advances in frontier disciplines in the field of construction management and real estate. Covering a wide range of topics, including New-type urbanization, land development and land use, urban planning and infrastructure construction, housing market and housing policy, real estate finance and investment, new theories and practices on construction project management, smart city, BIM technologies and applications, construction management in big data era, green architecture and eco-city, rural rejuvenation and eco-civilization, other topics related to construction management and real estate, the discussions provide valuable insights into the advancement of construction management and real estate in the new era. The book is an outstanding reference resource for academics and professionals alike.

Advances in Construction ICT and e-Business Jun 05 2021 This internationally conducted study of the latest construction industry practices addresses a broad range of Information and Communication Technology applications. Drawing on research conducted in the US and UK, this book presents the state of the art of various ebusiness processes, and examines BIM, virtual environments and mobile technologies. Innovation is a theme that runs throughout this book, so in addition to the direct impact of these new technical achievements, it also considers the management styles that helped them to emerge. Examples from industry are illustrated with case studies and presented alongside research from some of the best known academics in this field. This book is essential reading for all advanced students and researchers interested in how ICT is changing construction management and the construction industry.

Teaching and Learning Strategies for Sustainable Development Apr 22 2020 This timely book explores the sustainable development goals, how well universities have been able to integrate them into their curriculum, and how universities can institutionalize the goals and sustainable development into their strategic plans and institutional culture

GB, GB/T, GBT - Product Catalog. Translated English of Chinese Standard (All national standards GB, GB/T, GBT, GBZ) Apr 03 2021 This document provides the comprehensive list of Chinese National Standards - Category: GB; GB/T, GBT.

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