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Handbook of Sustainability Management.

This book provides an overview of the environmental problems that arise from construction activity, focusing on refurbishment as an alternative to the current crisis in the construction sector, as well as on measures designed to minimize the effects on the environment. Furthermore, it offers professionals insights into alternative eco-efficient solutions using new materials to minimize environmental impacts and offers solutions that they can incorporate into their own designs and buildings. It also demonstrates best practices in the cooperation between various universities in Andalusia in Spain and Latin America and many public and private companies and organizations. This book serves as a valuable reference resource for professionals and researchers and provides an overview on the status of investigations to find solutions to improve sustainable development in terms of materials, systems, facilities, neighborhoods, buildings, and awareness of the society involved.

Inhaltsangabe:Abstract: This paper deals with the valuation of property in a global context and discusses contemporary and evolving issues that might affect property valuation standards and practice in Germany and in the United Kingdom. It shows the need, the development and the growing acceptance of International Valuations Standards (IVS) published by the International Valuations Standards Committee and

identifies valuations for financial reporting as the key driving force behind the ambition of harmonising valuation standards. Additionally, the major differences between valuation standards and practice in Germany and the UK are examined, the interrelationship between and the discussion about three concurring set of standards (namely Red Book, Blue Book and White Book) is presented and the importance of Market Value as the central underlying definition of value is highlighted. Then the parallel development of International Accounting Standards (IAS) and their adoption within the European Union from 2005 onwards is explained and it is shown that this reinforces the position and the acceptance of IVS. Furthermore, the major differences between IAS, German and UK Generally Accepted Accounting Practice regarding the treatment of real estate are shown and the possible consequences for the valuation of fixed assets are derived. Also the New Basel Capital Accord (Basel II) which determines the way how banks have to allocate capital is identified as another area of interest for the valuation profession. For this reason the methodology of Basel II is explained briefly and the problems and consequences regarding the treatment and valuation of real estate that evolve out of an application of Basel II are explored. Finally, other areas of interest that might determine the future of property valuation are addressed, notably the issue of sustainability. It is shown that there are numerous benefits of sustainable buildings, that the client demand for them is rising and that valuers will have to consider this aspect because it will affect the Market Value of the

property. In sum, this paper shows that there are fundamental differences in the way how the German and the UK valuation scene is acting to cope up with these developments on the international scene, i.e., the UK valuers and the RICS are acting proactive and are at the forefront of new developments (the fact that the RICS based their new Red Book mainly on IVS is the best example), while in contrast [...]

This book constitutes the refereed post-conference proceedings of the 5th International Conference on Future Access Enablers for Ubiquitous and Intelligent Infrastructures, FABULOUS 2021, held in May 2021. Due to COVID-19 pandemic the conference was held virtually. This year's conference topic covers security of innovative services and infrastructure in traffic, transport and logistic ecosystems. The 30 revised full papers were carefully reviewed and selected from 60 submissions. The papers are organized in thematic sessions on: Internet of things and smart city; smart environment applications; information and communications technology; smart health applications; sustainable communications and computing infrastructures.

This publication contains 12 case studies of sustainable school building design, with practical examples of primary and secondary schools around the country that have addressed the environmental challenges of sustainable development to deliver school buildings that use less energy and water, that minimise waste and avoid the use of pollutants, that protect and enhance habitats for plants and wildlife, and that meet wider community needs. This guide is designed to be accessible to the whole school

community, but it is aimed particularly at professionals such as designers and local authority clients. It also addresses the refurbishment of existing schools as many sustainability techniques used in the design of new schools can be applied to existing schools, and vice versa.. More information on DfES policies relating to sustainable development can be found at: <http://www.teachernet.gov.uk/sustainable-schools> and at <http://www.teachernet.gov.uk/sustainable-design>

Sustainable Buildings and Structures collects the contributions presented at the 1st International Conference on Sustainable Buildings and Structures (Suzhou, China, 29 October-1 November 2016). The book aims to share thoughts and ideas on sustainable approaches to urban planning, engineering design and construction. The topics discussed include:-

This book highlights the diverse nature of the scientific domains associated with landscape architecture. It emphasises the need to acknowledge that the contribution of each research domain is equally important, offering complementary development opportunities while enabling landscapes to fulfill their multiple functions and ecosystem services in an integrated way, underlining the relevance of theory, methods, and practice to promote sustainable landscape planning and design.

Contemporary Problems of Architecture and Construction 2020 includes contributions on various complex issues and aspects of engineering and construction of buildings and structures, protection, reconstruction and restoration of architecture, as well as

intellectualization of energy and safety systems functioning urban development. The contributions were presented at the eponymous conference (ICCPAC 2020, St Petersburg, Russia, November 25-26, 2020), and cover a wide range of topics: Urban development: problems of urban construction and architecture Engineering, construction and operation of buildings and structures Implementation of building information modeling (BIM) and geo-information systems (GIS) technologies in the construction industry Energy efficiency of buildings and maintenance systems Engineering technologies of sustainable nature management and environmental protection Intellectualization and algorithmization of large cities road safety systems functioning Economics and management in construction and public utility services. Contemporary Problems of Architecture and Construction 2020 will be of interest to academics and professionals involved in the urban development, engineering technologies, architecture and construction, economics and management in construction industry.

Strategies that enable organizations to succeed as businesses and as responsible corporate citizens Based on the authors' many years of research and hands-on experience, this book provides tested and proven practical strategies that make it possible for organizations to develop, maintain, or extend their competitive advantage without causing harm to the environment and society. Moreover, it explains how to set goals and objectives and then monitor, measure,

and report on progress towards achieving corporate social responsibility and environmental sustainability. Most importantly, readers will discover that this can all be accomplished while, at the same time, improving bottom-line profitability. *Practical Sustainability Strategies: How to Gain a Competitive Advantage* is divided into four parts: Part 1, Introduction to Sustainability, underscores the urgency for organizations to adopt and develop sustainable practices Part 2, Sustainable Strategies, details numerous strategies that have been proven to work, including environmental innovation through biomimicry, green buildings, and green chemistry Part 3, Tools and Metrics, offers practical information on implementing strategies and measuring sustainability and reporting, including global standards and guidelines for managing sustainability, life-cycle analysis, carbon and water footprints such as GRI, GHG Protocol, UN Global Compact Part 4, Conclusion, provides an expert forecast of the future of sustainability Case studies based on the authors' research and fieldwork illustrate how leading companies have implemented each of the sustainability strategies discussed in the book. There's also an appendix with additional case studies exploring various aspects of business practices and sustainability. *Practical Sustainability Strategies* is ideal as a graduate textbook as well as a reference for business managers. All readers will not only gain a greater appreciation for sustainable

development, but also the skills needed to integrate sustainability into all aspects of their organization's business practices.

This book focuses on solar energy conversion systems that can be implemented in the built environment, at building or at community level. The quest for developing a sustainable built environment asks for specific solutions to provide clean energy based on renewable sources, and solar energy is considered one of the cleanest available energy on Earth. The specific issues raised by the implementation location are discussed, including the climatic profile distorted by the buildings, the available surface on the buildings for implementation, etc. This book also discusses the seasonal and diurnal variability of the solar energy resource in parallel with the variability of the electrical and thermal energy demand in the built environment (particularly focusing on the residential buildings). Solutions are proposed to match these variabilities, including the development of energy mixes with other renewables (e.g. geothermal or biomass, for thermal energy production). Specific solutions, including case studies of systems implemented on buildings all over the world, are presented and analyzed for electrical and for thermal energy production and the main differences in the systems design are outlined. The conversion efficiency (thus the output) and the main causes of energy losses are considered in both cases.

The architectural constraints are additionally considered and novel solar energy convertors with different shapes and colors are presented and discussed. The durability of the solar energy conversion systems is analyzed considering the specific issues that occur when these systems are implemented in the built environment; based on practical examples, general conclusions are formulated and specific aspects are discussed in relation to experimental results and literature data. With renewables implemented in the built environment likely to expand in the near future, this book represents welcome and timely material for all professionals and researchers that are aiming to provide efficient and feasible solutions for the sustainable built environment.

The objective of Sustainable Communities Design Handbook is to ensure a better quality of life for everyone, both now and for generations to come. This means creating a better and safer environment internationally through the sustainable use of natural resources, encouraging sustainable development which supports a strong economy, and ensuring a high quality environment that can be enjoyed by all. Sustainable Development Partnerships brings together in one reference today's most cutting edge technologies and methods for creating sustainable communities. With this book, Environmental Engineers, Civil Engineers, Architects, Mechanical Engineers, and Energy Engineers find a common

approach to building environmental friendly communities which are energy efficient. The five part treatment starts with a clear and rigorous exposition of sustainable development in practice, followed by self-contained chapters concerning applications. Methods for the sustainable use of natural resources in built communities Clearly explains the most cutting edge sustainable technologies Provides a common approach to building sustainable communities Coverage of sustainable practices from architecture to construction How is technology shaping our built environment and changing the practice of architecture? This book explores how buildings and spaces are designed, built, used, and better understood through technology. A practical guide to technical advances including Internet of Things (IoT), 3D printing, innovative materials and robotics, Smart Buildings also outlines the opportunities for architecture including improved communication, flexibility, wellbeing, productivity and data collection. Bringing together multidisciplinary contributions and case studies from across the globe, this book provides an inspiring practical guide on how technology can inspire new architectural ideas, improving quality, comfort, health and wellbeing in the built environment

"This book addresses the different perspectives of energy consumption and demand to ensure sustainable energy, increased energy efficiency, improved

energy policies and reasonable energy costs"--

This book provides a single-source reference for whole life embodied impacts of buildings. The comprehensive and persuasive text, written by over 50 invited experts from across the world, offers an indispensable resource both to newcomers and to established practitioners in the field. Ultimately it provides a persuasive argument as to why embodied impacts are an essential aspect of sustainable built environments. The book is divided into four sections: measurement, including a strong emphasis on uncertainty analysis, as well as offering practical case studies of individual buildings and a comparison of materials; management, focusing in particular on the perspective of designers and contractors; mitigation, which identifies some specific design strategies as well as challenges; and finally global approaches, six chapters which describe in authoritative detail the ways in which the different regions of the world are tackling the issue.

"With this book, Robin Guenther and Gail Vittori show us how critical our green building mission is to the future of human health and secures a lasting legacy that will continue to challenge and focus the green building movement, the healthcare industry, and the world for years to come." —From the Foreword by Rick Fedrizzi, President, CEO and Founding Chair, U.S. Green Building Council

INDISPENSABLE REFERENCE FOR THE FUTURE OF SUSTAINABLEHEALTHCARE DESIGN Written by a leading healthcare architect named one of FastCompany's 100 most creative people in business and asustainability expert recognized by Time magazine as a GreenInnovator, Sustainable Healthcare Architecture, SecondEdition is fully updated to incorporate the latest sustainable design approaches and information as applied to hospitals and otherhealthcare facilities. It is the essential guide for architects,interior designers, engineers, healthcare professionals, andadministrators who want to create healthy environments forhealing. Special features of this edition include: 55 new project case studies, including comparisons of keysustainability indicators for general and specialty hospitals,sub-acute and ambulatory care facilities, and mixed-usebuildings New and updated guest contributor essays spanning a range ofhealth-focused sustainable design topics Evolving research on the value proposition for sustainablehealthcare buildings Profiles of five leading healthcare systems and their uniquesustainability journeys, including the UK National Health Service,Kaiser Permanente, Partners HealthCare, Providence Health &Services, and Gundersen Health System Focus on the intersection of healthcare, resilience, and ahealth promotion imperative in the face of extreme

weatherevents Comparison of healthcare facility-focused green building ratingsystems from around the world Sustainable Healthcare Architecture, Second Edition is an indispensable resource for anyone interested in the design, construction, and operation of state-of-the-art sustainable healthcare facilities.

This collected volume analyses labelling as a political and economic operation. It gathers contributions that focus on various domains, including the agri-food sector, the construction sector, eco-labelling, retail, health public policies and the energy sector, considering the use of labels for various objectives, such as providing legal and technical data on consumption products, certifying their quality, and indicating the approval of professional or political authorities. These practices are tied to both public and private interventions that make civic concerns visible and aim to govern them. The book considers 'labelling the economy' as an operation that introduces political questions into the economic realm, while also importing economic modes of reasoning into governance interventions. In doing so, the book considers the sociotechnical apparatus on which any label relies as a nexus where economic and political considerations are brought together.

Sustainability at the Cutting Edge is an essential guide to understanding the future

direction of sustainable technology. This fully updated new edition deals not only with current best practice and state of the art case studies, but with the very latest emerging technologies which will transform the relationship between buildings and energy. Professor Smith describes how buildings can be made to significantly reduce their reliance on fossil-based energy by the use of solar and geothermal resources. He also describes a range of renewable energy generating technologies. As sustainable building becomes increasingly essential with the advance of climate change, government legislation and international treaties, this is valuable knowledge for every architect, engineer and designer. This immensely practical book is packed with useful diagrams, charts and colour photographs to illustrate a variety of the most recent case studies, including the education building, the Core, at the Eden Project in Cornwall. As well as exploring cutting edge developments in photovoltaics (PV) this revised edition also includes the latest data from the 2006 Carbon Trust report on wave and tide, and new material on the latest advances in bioenergy and marine technologies. Buildings are currently a major part of the carbon emissions problem. This book indicates how they may become part of the solution.

High performance buildings maximize operational energy savings; improve comfort, health, & safety of occupants & visitors; & limit detrimental effects on the environment. These Guidelines provide instruction in the new methodologies that form the underpinnings of high performance buildings. They further indicate how these practices

may be accommodated within existing frameworks of capital project administration & facility management. Chapters: city process; design process; site design & planning; building energy use; indoor environment; material & product selection; water mgmt.; construction admin.; commissioning; & operations & maintenance.

The leading green building reference, updated with the latest advances in the field Sustainable Construction is the leading reference for the design, construction, and operation of high performance green buildings. With broad coverage including architecture, engineering, and construction, this book nevertheless delivers detailed information on all aspects of the green building process, from materials selection to building systems and more. This new fourth edition has been updated to reflect the latest codes and standards, including LEED v4, and includes new coverage of carbon accounting. The discussion has been updated to align with the current thinking on economics, climate change, net zero buildings, and more, with contributions by leaders in the field that illustrate the most recent shifts in thinking and practice. Ancillary materials including an instructor's manual and PowerPoint presentations for each chapter help bring this clear and up-to-date information into the classroom, making this book a valuable reference for working construction professionals. Also, Interactive graphics found throughout the course help activate the content and highlight key concepts for students. Sustainable construction has gone mainstream, and will one day be the industry norm. This book provides a comprehensive reference to all aspects of a

project to show you how green building concepts and principles apply throughout the design and construction process. Get up to date on the latest green building codes and standards Learn about the newest technology in green building materials Adopt the best practices in procurement and delivery systems Apply sustainability concepts to all aspects of construction and design Green buildings operate at a very high level of efficiency, which is made possible only by careful consideration every step of the way. Appropriate land use, landscaping, construction materials, siting, water use, and more all play a role in a structure's ultimate carbon footprint. Sustainable Construction provides clear guidance for all aspects of green building, including the most recent advances and the latest technology.

The second edition of Sustainable Buildings and Infrastructure continues to provide students with an introduction to the principles and practices of sustainability as they apply to the construction sector, including both buildings and infrastructure systems. As a textbook, it is aimed at students taking courses in construction management and the built environment, but it is also designed to be a useful reference for practitioners involved in implementing sustainability in their projects or firms. Case studies, best practices and highlights of cutting edge research are included throughout, making the book both a core reference and a practical guide.

An important consideration for energy-efficient buildings is their primary energy requirements over the entire life cycle. How to determine this? What integrative factors

influence the performance of a healthy and sustainable building? This, while it may be important for clients and architects to know, is frequently not very transparent. This book has been written to assist with clarifying target criteria and expanding horizons when it comes to ecological buildings. It is meant as a handbook and source of reference for clients, architects, planners and building operators, to provide them with pertinent information about their design, construction and operation: how to do this in the most energy-efficient and economical manner? Also, there is feedback and documentation about prominent buildings like the Hamburg Dockland or the Landesbank Baden-Wuerttemberg in Stuttgart. They provide excellent architectural examples for detailed construction and design solutions. Further, there are insightful interviews with architects and clients about many important buildings, which help turn this book into an integrated source of reference for sustainable architecture. - A Guideline for Planning, Construction and Operation of sustainable Buildings - A source of reference for clients, architects, planners and building operators - Innovative architectural examples with sustainable concepts and design

This handbook provides researchers and students with an overview of the field of sustainability indicators (SIs) as applied in the interdisciplinary field of sustainable development. The editors have sought to include views from the center ground of SI development but also divergent ideas which represent some of the diverse, challenging and even edgy observations which are prominent in the wider field of SI thinking. The

contributions in this handbook: • clearly set out the theoretical background and history of SIs, their origins, roots and initial goals • expand on the disciplines and modalities employed to develop SIs of various kinds • assess the various ways in which SI data are gathered and the availability (over space and time) and quality issues that surround them • explore the multiplex world of SIs as expressed in agencies around the world, via examples of SI practice and the lessons that have emerged from them • critically review the progress that SIs have made over the last 30 years • express the divergence of views which are held about the value of SIs, including differing theories on their efficacy, efficiency and ethics • explore the frontier of contemporary SI thinking, reviewing ante/post and systemic alternatives This multidisciplinary and international handbook will be of great interest to researchers, students and practitioners working in sustainability research and practice.

Marketing Green Building Services: Strategies for Success presents all the information key decision-makers need to respond to the fast-growing market for green buildings, design and construction services and products. Completely updated, revised and expanded from the author's previous works, this book is the one resource you need to succeed in the green building marketplace. With a sound grounding in contemporary marketing theory and practice, the book assembles hard-to-find information to assist executives and partners in design and construction firms in crafting competitive strategies that build on their firm' strengths, while shoring up their weaknesses. Since

most design and construction firms specialize in particular market sectors, the book systematically examines the important market segments for green buildings. It also presents key business case justifications for green buildings that help architects, engineers and builders to understand client motivations and respond to them with appropriate marketing tactics and communications strategies. The book examines how the green building market is adopting certain new products and design approaches, information that will help manufacturers and product sales teams to craft appropriate marketing strategies. The book also helps owners and developers understand the green building business case and to find out what other leading-edge firms and projects have learned - how to market and sell green buildings and green developments in a highly competitive marketplace.

This unique volume offers insights from renowned experts in energy efficient building from the world over, providing a multi-faceted overview of the state-of-the-art in energy efficient architecture. It opens by defining what constitutes a sustainable building, suggesting bases for sorely needed benchmarks, then explains the most important techniques and tools available to engineers and architects exploring green building technologies. It covers such pivotal issues as daylighting, LED lighting, integrating renewables such as solar thermal and cooling, retrofitting, LEED and similar certification efforts, passive houses, net-zero and close-zero structures, water recycling, and much more. Highlighting best practices for commercial buildings and private

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homes, in widely varied climates and within vastly different socio-economic contexts, this illustrated reference will guide architects and engineers in making sustainable choices in building materials and methods. Explains the best methods and materials to support energy efficient building Features case studies by experts from a dozen countries, demonstrating how sustainable architecture can be achieved in varied climates and economies Covers both new constructions and retrofitting of existing structures

"Buildings are currently a major part of the carbon emissions problem. Sustainability at the Cutting Edge indicates how they may become part of the solution. This fully updated new edition deals not only with current best practice and state-of-the-art case studies, but also with the very latest emerging technologies which will transform the relationship between buildings and energy. Professor Peter Smith describes how buildings can be made to significantly reduce their reliance on fossil-based energy by the use of solar and geothermal resources." "Packed with useful diagrams, charts and full colour photographs, this immensely practical book is a great reference for professionals in the design and construction industry."--BOOK JACKET.

Traditional studies of the property market have tended to focus solely on commercial and legal issues, but the growing importance of the issue of

sustainability means that a different approach is needed. This new textbook provides an overview of property within a market context, examining the complex nature of property rights and issues related to both investors and occupiers. At the same time it assesses property from the perspective of financial, social and environment sustainability. Topics covered range from the characteristics of property and depreciation, to ownership and development through to investments and sustainability reporting. The book concludes with key skills in sustainable knowledge needed by those working in the real estate industry. Written by an author team of experienced property professionals, this essential introductory textbook is well suited for property, planning and architecture students on undergraduate, graduate and conversion courses, as well as those on CPD and training programmes in related areas.

This book discusses human factors research directed towards realizing and assessing sustainability in the built environment. It reports on advanced engineering methods for sustainable infrastructure design, as well as on assessments of the efficient methods and the social, environmental, and economic impact of various designs and projects. The book covers a range of topics, including the use of recycled materials in architecture, ergonomics in buildings and public design, sustainable design for smart cities, design for the

aging population, industrial design, human scale in architecture, and many more. Based on the AHFE 2018 International Conference on Human Factors, Sustainable Urban Planning and Infrastructure, held on July 21–25, 2018, in Orlando, Florida, USA, it offers various perspectives on sustainability and ergonomics. As such, it is a valuable reference resource for designers, urban engineers, architects, infrastructure professionals, public infrastructure owners, policy makers, government engineers and planners, as well as operations managers and academics active in urban and infrastructure research.

Future Access Enablers for Ubiquitous and Intelligent Infrastructures 5th EAI International Conference, FABULOUS 2021, Virtual Event, May 6–7, 2021, Proceedings Springer Nature

This report identifies the costs associated with a range of sustainable solutions for different building types.

This book highlights the various technologies that are currently available or are now being developed for the green and smart buildings of the future. It examines why green building performance is important, and how it can be measured and rated using appropriate benchmarking systems. Lastly, the book provides an overview of the state-of-the-art in green building technologies and the trend towards zero energy or net positive energy buildings in the future.

Building with wood has an untapped potential to transform the construction industry and create the next generation of low-carbon and healthy buildings. The Nordics, with an abundance of sustainably managed forest resources and a long history of building in wood, are well placed to lead in this construction revolution. Across the wood in construction value chain, from forestry and processing, through production and design, to construction and decommission, the Nordic region is innovating to build bigger and more sustainably with wood than ever before. This publication features 25 Nordic cases from across the value chain working with wood in exciting and innovative ways. These projects demonstrate the benefits and drivers for building with wood, and provide inspiration for architects, land managers, city planners, designers, suppliers and many more. The 25 cases point to five trends within Nordic wood in construction that paint a picture of where the industry is headed: 1) multifunctionality; 2) saving time and costs; 3) investing in scalability; 4) pushing the boundaries; and 5) circular design. The team behind this report – the Nordic Wood in Construction Secretariat – is an initiative commissioned by the Nordic Council of Ministers and the Swedish Government, and hosted by EIT Climate-KIC. The secretariat's aim is to support and accelerate the use of wood in Nordic construction through a portfolio of projects, fostering greater dialogue, knowledge-sharing and

collaboration between stakeholders from the private sector, public sector, and academia.

Filling a gap in existing literature on sustainable design, this new guide introduces and illustrates sustainable design principles through detailed case studies of sustainable buildings in Europe, North America and Australia. The guide will provide the reader with a deeper understanding of the design issues involved in delivering sustainable buildings, and giving detailed description of the process of integrating principles into practice. Approximately one hundred case studies of sixty buildings, ranging from small dwellings to large commercial buildings, and drawn from a range of countries, demonstrate best current practice. The sections of the book are divided into design issues relating to sustainable development, including site and ecology, community and culture, health, materials, energy and water. With over 400 illustrations, this highly visual guide will be an invaluable reference to all those concerned with architecture and sustainability issues.

This Special Issue delivered 16 scientific papers, with the aim of exploring the application of carbon capture and storage technologies for mitigating the effects of climate change. Special emphasis has been placed on mineral carbonation techniques that combine innovative applications to emerging problems and

needs. The aim of this Special Issue is to contribute to improved knowledge of the ongoing research regarding climate change and CCS technological applications, focusing on carbon capture and storage practices. Climate change is a global issue that is interrelated with the energy and petroleum industry. sectors including offices, retail and manufacturing. It explains the facilities manager's role in incorporating sustainability into the whole life-cycle of a building – from initial briefing to final disposal. The book takes a structured approach: • masterplanning and real estate (acquisitions and disposals) • design • construction and commissioning • refurbishment, fit-out and project management • maintenance • operation • occupant satisfaction. Sustainable Practice for the Facilities Manager fills a the gap between the policy-level sustainability books and the detailed technical documents by focusing on the 'what' and 'how' of planning and implementing sound environmental management practices in the context of FM operations. It covers policy and trends on global, European and UK levels affecting businesses; compliance requirements for organisations -including some sector-specific areas; and best practice, with good and bad case studies showing the business benefits of incorporating sustainable practice into day-to-day activities. The book is for: • facilities management professionals • public and private organisations owning properties • property companies • institutional

investors • building services or supplier organisations and will help you deliver an improved operationally performing facility. Sunil Shah – Technical Director and Head of Sustainability, Jacobs Sunil has over eight years consultancy experience within the built environment, reviewing lifecycle environmental and social impacts from facilities. He has experience in a number of sectors, providing strategic consultancy support for clients including GlaxoSmithKline, BP, BAA, HM Prison Service, Pfizer and London Fire Brigade. Sunil has most recently been involved in supporting the inclusion of facilities management within the DTI's Sustainable Construction Strategy.

Promise, Application and Pitfalls

Building information modelling (BIM) is revolutionising building design and construction. For architects, BIM has the potential to optimise their creativity while reducing risk in the design and construction process, thus giving them a more significant role in the building process. This book demonstrates how innovative firms are using BIM technologies to move design away from the utilitarian problems of construction, engaging them in a stunning new future in the built environment. Whereas recent books about BIM have tended to favour case-study analyses or instruction on the use of specific software, BIM Design highlights how day-to-day design operations are shaped by the increasingly

generative and collaborative aspects of these new tools. BIM strategies are described as operations that can enhance design rather than simply make it more efficient. Thus this book focuses on the specific creative uses of information modelling at the operational level, including the creative development of parametric geometries and generative design, the evaluation of environmental performance and the simulation and scheduling of construction/fabrication operations. This book also engages BIM's pragmatic efficiencies such as the conflict checking of building systems and the creation of bills of quantities for costing; and in so doing it demonstrates how BIM can make such activities collaborative. Throughout, projects are used to illustrate the creative application of BIM at a variety of scales. These buildings showcase work by firms executing projects all over the world: SHoP Architects and Construction (New York), Morphosis (Los Angeles), Populous (London), GRO Architects (New York), Reiser + Umemoto (New York), Gensler (Shanghai) and UNStudio (Amsterdam).

Construction Project Management: An Integrated Approach is a management approach to leading projects and the effective choice and use of project management tools and techniques. It seeks to push the boundaries of project management to take on board future needs and user issues. Integration of the construction project, meaning closer relations between the project team, the

supply chain and the client, is long overdue; however, despite some signs of growth in this area, the industry nonetheless remains fragmented in its approach. The role of the project manager is to integrate diverse interests and unify objectives to achieve a common goal. This has now broadened to include a responsibility, on the parts of both client and team, to ensure that construction addresses current and future societal needs. From an economic perspective, a great deal of waste is connected with conflict, thus a holistic approach that increases the efficiency and effectiveness of the task at hand will inject energy into project management. This third edition now takes on board the impact of technology in building information modelling and other digitised technologies such as artificial intelligence. Together, they open up avenues for more direct and incisive action to test creative design, manufacture directly and communicate spontaneously and intuitively. In time, such technologies will change the role of project managers but will never take away their responsibility to be passionate about construction and to integrate the team. A new chapter has been added that considers future societal needs. This edition is also reordered to make the project life cycle and process chapters clearer. This book combines best practice in construction with the theories underpinning project management and presents a wealth of practical case studies – many new. It focuses on all construction

disciplines that may manage projects. The book is of unique value to students in the later years of undergraduate courses and those on specialist postgraduate courses in project management and also for practitioners in all disciplines and clients who have experienced the frustration caused by the fragmentation of construction projects.

This book presents a practical approach to pro-environmental challenges faced by companies in the process of restructuring. It contains a broad variety of case studies from different economic sectors, and small and large businesses, in four European countries: Ukraine, Romania, Germany and Poland. The studies are the results of surveys of companies that had either already restructured or were planning to, and reveal both the weaknesses and strengths in these practices. The book is divided into three parts: explorations of how political and legal factors are embedded in a company's strategy and how they influence the company's behaviour; analyses of companies' activities on matching restructuring with ecology; and approaches to ecoinnovations within the companies. The case studies throughout the book show that the restructuring of a company is an opportunity for the implementation of proecological action and "green" business models. The authors trust that the experiences and good practices of others will prove valuable both for future businessmen (i.e. students), but also for

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academics and representatives of local government, central environmental agencies, owners and managers of enterprises to be restructured.

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