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As a companion to books on project-management theory, this book illustrates, in a down-to-earth, comprehensive style, how to put that theory into practice. In addition to the many examples that illustrate procedures, the book includes over 25 case studies, each one addressing a specific theme. Key topics, such as project selection, negotiations, planning and scheduling, cost and budgeting, project control, human resources, environmental impacts, risk management, and financial evaluation, are discussed, using a step-by-step approach. Beginning at the grassroots level, some cases are solved by hand to illustrate the mechanics of a procedure, while others are solved using advanced computer programs. In this way the reader has a clear idea of the problem, how and when to raise the issue, information needed (and who can provide it), how to solve

it by hand, when possible, and also its resolution using the latest informatics tools. *Advances in Construction and Demolition Waste Recycling: Management, Processing and Environmental Assessment* is divided over three parts. Part One focuses on the management of construction and demolition waste, including estimation of quantities and the use of BIM and GIS tools. Part Two reviews the processing of recycled aggregates, along with the performance of concrete mixtures using different types of recycled aggregates. Part Three looks at the environmental assessment of non-hazardous waste. This book will be a standard reference for civil engineers, structural engineers, architects and academic researchers working in the field of construction and demolition waste. Summarizes key recent research in recycling and reusing concrete and demolition waste to reduce environmental impacts Considers techniques for managing construction and demolition waste, including waste management plans, ways of estimating levels of waste, and the types and optimal location of waste recycling plants Reviews key steps in handling construction and demolition waste This book gathers the latest advances, innovations, and applications in the field of energy, environmental and construction engineering, as presented by international researchers and engineers at the International Scientific Conference Energy, Environmental and Construction Engineering, held in St. Petersburg, Russia on November 19-20, 2020. It covers highly diverse topics, including BIM; bridges, roads and tunnels; building materials; energy efficient and green buildings; structural mechanics; fluid mechanics; measuring technologies; environmental management; power consumption management; renewable energy; smart cities; and waste management. 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. This comprehensive treatment of the subject assesses the performance characteristics needed for application plus the performance properties of generic sealants. Illustrated with 100 photos as well as diagrams which explain fundamentals and outline methods to insure the use of appropriate procedures. First Published in 2008. Routledge is an imprint of Taylor & Francis, an informa company. Individuals, international organizations and states are calling for the world to confront climate change. Efforts such as the Kyoto Protocol have produced intractable disputes and are deemed inadequate. This volume adopts two constructivist perspectives - norm-centred and discourse - to explore the social construction of climate change from a broad, theoretical level to particular cases. The contributors contend that climate change must be understood from the context of social settings, and that we ignore at our peril how power and knowledge structures are generated. They offer a greater understanding of why current efforts to mitigate climate change have failed and provide academics and policy makers with a new understanding of this important topic. Demands on the construction industry are changing, and it is now virtually essential for environmental management to be considered at all stages of a project. Many construction managers are finding a quantitative approach useful, and this book outlines four quantitative methods which can be applied at different construction stages, and which fit within a comprehensive framework of dynamic Environmental Impact Assessment (EIA). These include: a method to quantitatively evaluate and reduce pollution and hazards levels a method to evaluate the environmental-consciousness of proposed construction plans a method to reduce on-site construction wastes through an incentive reward programme a method to promote C and D waste exchange in the local construction industry. With an experimental case study of the application of these methods, this book delivers a comprehensive review of environmental management issues in construction. With regulatory requirements potentially favouring the quantitative approach, this timely guide ensures that contractors will be able to keep pace with environmental management standards. 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With regulatory requirements potentially favouring the quantitative approach, this timely guide ensures that contractors will be able to keep pace with environmental management standards. This monograph offers analyses of construction activities using various key concepts and assessments of sustainable development, and provides students and researchers with methodologies and design aspects for the sustainable development of the built environment. Additionally, the book demonstrates various national and international policies for assisting architects, engineers and policy makers in understanding the relevant decision-making approaches to sustainable development in construction. The book begins by reviewing the background of sustainability and sustainable development. The focus then turns to the effects of climate change on the built environment, including impacts of energy and carbon emissions, as well as constraints on water and waste management. The remaining chapters discuss the necessary approaches to achieve sustainable waste management, energy efficient building design, and resilience and adaptation in the built environment In eight chapters, the book encourages readers to think independently, logically and objectively about the complex issues presented by the applications of sustainable development in construction, including resource efficiency, environmental impacts, human health, building economics and social development. Produced sand causes a lot of problems. From that reasons sand production must be monitored and kept within acceptable limits. Sand control problems in wells result from improper completion techniques or changes in reservoir properties. The idea is to provide support to the formation to prevent movement under stresses resulting from fluid flow from reservoir to well bore. That means that sand control often result with reduced well production. Control of sand production is achieved by: reducing drag forces (the cheapest and most effective method), mechanical sand bridging (screens, gravel packs) and increasing of formation strength (chemical consolidation). For open hole completions or with un-cemented slotted liners/screens sand failure will occur and must be predicted. Main problem is plugging. To combat well failures due to plugging and sand breakthrough Water-Packing or Shunt-Packing are used. You can use this book to design a house for yourself with your family; you can use it to work with your neighbors to improve your town and neighborhood; you can use it to design an office, or a workshop, or a public building. And you can use it to guide you in the actual process of construction. After a ten-year silence, Christopher Alexander and his colleagues at the Center for Environmental Structure are now publishing a major statement in the form of three books which will, in their words, "lay the basis for an entirely new approach to architecture, building and planning, which will we hope replace existing ideas and practices entirely." The three books are *The Timeless Way of Building*, *The Oregon Experiment*, and this book, *A Pattern Language*. At the core of these books is the idea that people should design for themselves their own houses, streets, and communities. This idea may be radical (it implies a radical transformation of the architectural profession) but it comes simply from the observation that most of the wonderful places of the world were not made by architects but by the people. At the core of the books, too, is the point that in designing their environments people always rely on certain "languages," which, like the languages we speak, allow them to articulate and communicate an infinite variety of designs within a forma system which gives them coherence. This book provides a language of this kind. It will enable a person to make a design for almost any kind of building, or any part of the built environment. "Patterns," the units of this language, are answers to design problems (How high should a window sill be? How many stories should a building have? How much space in a neighborhood should be devoted to grass and trees?). More than 250 of the patterns in this pattern language are given: each consists of a problem statement, a discussion of the problem with an illustration, and a solution. As the authors say in their introduction, many of the patterns are archetypal, so deeply rooted in the nature of things that it seemly likely that they will be a part of human nature, and human action, as much in five hundred years as they are today. What makes building materials sustainable? How to reduce the amount of embodied energy in building constructions? And how does a Life Cycle Analysis work? These are questions which are becoming

increasingly more common in the context of sustainable construction. The DETAIL Green Book "Sustainable Construction Techniques" offers a thorough guide to ecological building design and sustainable construction methods, which will be particularly valuable for architects. The authors provide an overview of the most relevant databases and certification standards for building products and illustrate how a Life Cycle Analysis is conducted. They also identify key ways of optimising the planning process in line with ecological criteria, while offering advice for the selection of building materials and elements. Detailed documentation from five buildings constructed in Europe and North America serve to illustrate the associated assessment processes in this book.

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