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Programming is a fascinating and challenging subject. Unfortunately, it is rarely presented as such. Most often it is taught by "induction": features of some famous programming languages are given operational meaning (e.g. a loop "goes round and round"), a number of examples are shown, and by induction, we are asked to develop other programs, often radically different from the ones we've seen. Basically we are taught to guess our

programs, and then to patch up our guesses. Our errors are given the cute name of "bugs". Fixing them becomes puzzle-solving, as does finding tricks that exploit or avoid poorly designed features of the programming language. The entire process is time-consuming and expensive. And even so, we are never quite sure if our programs really work in all cases. When approached in this way, programming is indeed a dull activity. There is, however, another approach to programming, an approach in which programs can be developed reliably, with attention to the real issues. It is a practical approach based on methodically developing programs from their specifications. Besides being practical, it is exciting. Many programs can be developed with relative ease. Problems which once were difficult can now be solved by beginners. Elegant solutions bring great satisfaction. This is our subject. We are interested in making programming an exciting topic! A long established text that aims to meet the needs of students studying building measurement in the early years of quantity surveying and building degree courses. It contains a careful selection of 28 worked examples embracing all the principal building elements and including alternative constructional methods to illustrate a range of approaches. In the last two decades, one of the most important research accomplishments in coastal hydrodynamics has been the development of accurate numerical models for nonlinear water wave propagation over a complex bathymetry from a relatively deep-water depth into the surf zone. This book contains five excellent papers reviewing different methodologies in various aspects of wave modeling; the authors are active researchers who have made original contributions to these subjects. Contents:A

Review of Boussinesq-Type Equations for Surface Gravity Waves (P A Madsen & H A Sch ä ffer) Wave Runup and Overtopping on Beaches and Coastal Structures (N Kobayashi) On Second Order Wave Loading and Response in Irregular Seas (R E Taylor & M P Kernot) Free Surface Tracking Methods and Their Applications to Wave Hydrodynamics (P Lin & P-F Liu) Numerical Methods for Nonlinear Waves (J D Fenton) Readership: Civil and ocean engineers and applied physicists. Keywords: Nonlinear Irregular Waves on Uneven Bottom; Boussinesq Formulations; Spectral and Pseudospectral Methods; Boundary Integral Methods; Wave Runup and Overtopping; Wave Diffraction; Second-Order Hydrodynamics; Springing; Spectral Analysis; Wave Force and Response This second edition of Building Procurement has been revised to take into account recent developments in procurement, such as the Private Finance initiative, as well as some of the recommendations in the Latham Report and its working groups. The author sets out the basics of the building process, the principal players, along with general conventions and background information on building contracts and conditions of appointment for consultants. Fourteen case studies, based on real projects principally from the author's experience, are included to illustrate the progressive nature of procurement in practice. Examples of good and bad procurement decisions are given in the studies, with a postscript and comment on the reasons for success or failure. This is the first encyclopedia to chart the progress of Britain's railway development. It begins with primitive 17th-century wagonways, fully considers the eras of horse, steam, diesel, and electric traction, and then charts the change from private to public ownership. Finally, it describes in detail the privatizations

of the late 1990s. Over six hundred entries by eighty-eight expert contributors provide a comprehensive and unique reference to all aspects of railways. Materials science and engineering (MSE) contributes to our everyday lives by making possible technologies ranging from the automobiles we drive to the lasers our physicians use. Materials Science and Engineering for the 1990s charts the impact of MSE on the private and public sectors and identifies the research that must be conducted to help America remain competitive in the world arena. The authors discuss what current and future resources would be needed to conduct this research, as well as the role that industry, the federal government, and universities should play in this endeavor. Focusing on the conceptual and preliminary stages in bridge design, this book addresses the new conceptual criteria employed when evaluating project proposals, considering elements from architectural aspects and structural aesthetics to environmental compatibility.;

College or university bookstores may order five or more copies at a special student price. Price is available on request. This report reviews engineering's importance to human, economic, social and cultural development and in addressing the UN Millennium Development Goals. Engineering tends to be viewed as a national issue, but engineering knowledge, companies, conferences and journals, all demonstrate that it is as international as science. The report reviews the role of engineering in development, and covers issues including poverty reduction, sustainable development, climate change mitigation and adaptation. It presents the various fields of engineering around the world and is intended to identify issues and challenges facing engineering, promote better understanding of engineering and its role, and highlight ways of making

engineering more attractive to young people, especially women.--Publisher's description. A book aimed at those people involved in the training and education of graduate and post-graduate civil engineers. It deals with the best ways of education that meet the need for flexibility in consultancy and construction in civil engineering. The book is divided into four sections - taking stock, future needs, professional development and the impact of new technologies. This systematic and comprehensive survey of the USA and Canada provides valuable factual, statistical and directory information and examines political, economic and social affairs. Integrated Design of Multiscale, Multifunctional Materials and Products is the first of its type to consider not only design of materials, but concurrent design of materials and products. In other words, materials are not just selected on the basis of properties, but the composition and/or microstructure is designed to satisfy specific ranged sets of performance requirements. This book presents the motivation for pursuing concurrent design of materials and products, thoroughly discussing the details of multiscale modeling and multilevel robust design and provides details of the design methods/strategies along with selected examples of designing material attributes for specified system performance. It is intended as a monograph to serve as a foundational reference for instructors of courses at the senior and introductory graduate level in departments of materials science and engineering, mechanical engineering, aerospace engineering and civil engineering who are interested in next generation systems-based design of materials. First of its kind to consider not only design of materials, but concurrent design of materials and products Treatment of uncertainty via robust

design of materials Integrates the "materials by design approach" of Olson/Ques Tek LLC with the "materials selection" approach of Ashby/Granta Distinguishes the processes of concurrent design of materials and products as an overall systems design problem from the field of multiscale modeling Systematic mathematical algorithms and methods are introduced for robust design of materials, rather than ad hoc heuristics--it is oriented towards a true systems approach to design of materials and products This comprehensively rewritten, updated and extended new edition of this established text focuses on what has become the most important single facet of the quantity surveyor's role - cost management. The scope of the book has been broadened to take account of the widening and more sophisticated cost management and control service that clients now require. The book examines the factors influencing building costs and how the precontract costs can be estimated, analysed and controlled, to ensure that buildings can be completed within the agreed budget and timescale, and be of acceptable quality, function effectively and provide value for money. A new chapter on value management has been added, together with an introductory chapter on cost modelling; the chapter on life cycling costing is extended, while the sections on energy conservation and occupancy costs are expanded. Throughout the text many new case studies, with supporting tables and diagrams, are included in order to enhance the value of this book to the student and the practitioner. This book, first published in 1992, examines defence issues as the twentieth century drew to a close. With the end of the Cold War, many of the threats to European security, such as the threat of nuclear war, disappeared. New ones, however, were emerging.



The rise of nationalism, the spread of weapons of mass destruction to politically unstable countries, the increase in world population, the debt crisis – all these contributed to security problems that needed to be resolved. The book assesses the possibilities for future European defence and the role that the United States would play in it: will it be prepared to stay in Europe under European leadership, or must it dominate? It also considers the capabilities offered by new military technology and the need for control of weapons of mass destruction. Based around recent lectures given at the prestigious Ritsumeikan conference, the tutorial and expository articles contained in this volume are an essential guide for practitioners and graduates alike who use stochastic calculus in finance. Among the eminent contributors are Paul Malliavin and Shinzo Watanabe, pioneers of Malliavin Calculus. The coverage also includes a valuable review of current research on credit risks in a mathematically sophisticated way contrasting with existing economics-oriented articles. Publishes in-depth articles on labor subjects, current labor statistics, information about current labor contracts, and book reviews. In the dynamic digital age, the widespread use of computers has transformed engineering and science. A realistic and successful solution of an engineering problem usually begins with an accurate physical model of the problem and a proper understanding of the assumptions employed. With computers and appropriate software we can model and analyze complex physical systems and problems. However, efficient and accurate use of numerical results obtained from computer programs requires considerable background and advanced working knowledge to avoid blunders and the blind acceptance of computer results. This

book provides the background and knowledge necessary to avoid these pitfalls, especially the most commonly used numerical methods employed in the solution of physical problems. It offers an in-depth presentation of the numerical methods for scales from nano to macro in nine self-contained chapters with extensive problems and up-to-date references, covering: Trends and new developments in simulation and computation Weighted residuals methods Finite difference methods Finite element methods Finite strip/layer/prism methods Boundary element methods Meshless methods Molecular dynamics Multiphysics problems Multiscale methods This CRCnetBASE version of the best-selling Environmental Engineers' Handbook contains all of the revised, expanded, and updated information of the second edition and more. The fully searchable CD-ROM offers virtually instant access to all of the interrelated factors and principles affecting our environment as well as how the government and the industry must deal with it. It addresses the ongoing global transition in cleaning up the remains of abandoned technology, the prevention of pollution created by existing technology. The Environmental Engineers' Handbook on CD-ROM provides daily problem solving tools and information on state-of-the-art technologies for the future. The technology and specific equipment used in environmental control and clean-up is included for those professionals in need of detailed technical information. Because analytical results are an essential part of any environmental study, analytical methods used in environmental analysis are presented as well. Data is clearly presented in tables and schematic diagrams that illustrate the technology and techniques used in different areas. B é la G. Lipt á k speaks on Post-Oil Energy Technology

on the AT&T Tech Channel. This study investigates the relation of total quality management (TQM) and just-in-time purchasing (JITP) with respect to firms' performance, based on theories from operations management, organization theory, strategic management and marketing. U.S. companies have implemented TQM and JITP techniques to improve their global competitive position. The lack of empirical research on how these techniques effect firms performance makes it necessary to explain their strategic values as management innovations. In this study, a cross-sectional mail survey was used with the target population of firms in the continental United States that have implemented either technique, or both. The results indicate that the extent of TQM and JITP implementation positively correlates with a firm's performance. Furthermore, the relation between JITP and financial and market performance is more significant in those industries that face high as opposed to low foreign competition. In this study, the validity of findings was assessed in four parts: statistical conclusion, internal, construct, and external validity. Each validity type is defined and its threats are discussed. Based on the findings, a revised research model is offered. The author also notes likely avenues of future research for theorists and practitioners.