

Engineering Project Appraisal Martin Rogers

Rogers: Highway Engineering This book provides an introduction to highway engineering for students on degree and diploma courses in civil engineering. It moves in a logical sequence from the planning and economic justification for a highway, through the geometric design and traffic analysis of highway links and intersections, to the design and maintenance of both flexible and rigid pavements. Existing texts have tended to concentrate purely on highway planning and analysis, or on pavement design and maintenance aspects of highway engineering. As a result, the standard has tended to be too advanced for students studying the subject for the first time. This textbook covers the basic ground in both areas. It features worked examples and case studies as an aid to understanding individual topics and aims to provide the student with a solid, practically based foundation for the topic of highway engineering, thus providing a gateway to the more advanced and specialised texts. The author Martin Rogers, BE, MEngSc, PhD, BA(Public Ad), CEng, MICE, MRTPI, Chartered Engineer and Chartered Town Planner, received his professional education at University College Dublin and the Institute of Public Administration, Dublin. He has worked in private practice and as a senior local authority engineer and was a member of the Dublin Transport Initiative Study Team that devised the current transportation plan for the Dublin city region. He joined the permanent staff at the Dublin Institute of Technology in 1993 and is currently

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a Senior Lecturer in the Department of Civil and Structural Engineering. He has previously co-written one postgraduate and one undergraduate text on project appraisal methods and has published technical papers in a number of internationally recognised engineering, construction, planning and operational research journals. Also of interest Engineering Project Appraisal Martin Rogers 0-632-05606-1 Cover illustration courtesy of FaberMaunsell Ltd Cover design by Garth Stewart

Exploring the intersection of Rogers' educational philosophy and the rise of technical institutes in America, this biography offers a long-overdue account of the man behind MIT.

An Introduction to e-Business provides the contemporary knowledge of the key issues affecting the modern e-business environment and links theory and practice of management strategies relating to e-business. This book brings together the most cogent themes for an introduction to e-business and constitutes a valuable contribution to formalising common themes for teaching the subject in higher education. It brings together theoretical perspectives based on academic research and the application of e-business strategies. These concepts are further explored in the six case studies that follow the set chapters. This new textbook integrates the main themes to provide a complete picture of the key elements relevant to an introductory text in e-business. To fully appreciate the e-business environment it is necessary to understand the links between the different disciplines that come together to form

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Concurrent Engineering (CE) is a systematic approach to the integrated and concurrent design of products and related processes, including aspects as diverse as manufacture and support. It is only now being carefully applied to the construction sector and offers considerable potential for increasing efficiency and effectiveness. It enables developers to consider all elements of a building or structure's life cycle from the conception stage right through to disposal, and to include issues of quality, cost, schedule, and user requirements. Drawing together papers that reflect various research efforts on the implementation of CE in construction projects, *Concurrent Engineering in Construction* presents construction professionals and academics with the key issues and technologies important for CE's adoption, starting with fundamental concepts and then going on to the role of organisational enablers and advanced information and communication technologies, then providing conclusions and suggestions of future directions.

Project Management for Engineering, Business and Technology is a highly regarded textbook that addresses project management across all industries. First covering the essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people" aspects—project leadership, team

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building, conflict resolution, and stress management. The systems development cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program, or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This sixth edition features: updates throughout to cover the latest developments in project management methodologies; a new chapter on project procurement management and contracts; an expansion of case study coverage throughout, including those on the topic of sustainability and climate change, as well as cases and examples from across the globe, including India, Africa, Asia, and Australia; and extensive instructor support materials, including an instructor's manual, PowerPoint slides, answers to chapter review questions and a test bank of questions. Taking a technical yet accessible approach, this book is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses, as well as for practicing project managers across all industry sectors.

A new edition of the most popular book of project management case studies, expanded to include more than 100 cases plus a "super case" on the Iridium Project Case studies are an important part of project management education and training. This Fourth Edition of Harold Kerzner's Project Management Case Studies features a number of

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new cases covering value measurement in project management. Also included is the well-received "super case," which covers all aspects of project management and may be used as a capstone for a course. This new edition: Contains 100-plus case studies drawn from real companies to illustrate both successful and poor implementation of project management Represents a wide range of industries, including medical and pharmaceutical, aerospace, manufacturing, automotive, finance and banking, and telecommunications Covers cutting-edge areas of construction and international project management plus a "super case" on the Iridium Project, covering all aspects of project management Follows and supports preparation for the Project Management Professional (PMP®) Certification Exam Project Management Case Studies, Fourth Edition is a valuable resource for students, as well as practicing engineers and managers, and can be used on its own or with the new Eleventh Edition of Harold Kerzner's landmark reference, Project Management: A Systems Approach to Planning, Scheduling, and Controlling. (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)

In most cases of civil engineering development, a range of alternative schemes meeting project goals are feasible, so some form of evaluation must be carried out to select the most appropriate to take forward. Evaluation criteria usually include the economic, environmental and social contexts of a project as well as the engineering challenges, so engineers must be familiar with the processes and tools used. The second edition of

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Engineering Project Appraisal equips students with the understanding and analytical tools to carry out effective appraisals of alternative development schemes, using both economic and non-economic criteria. The building blocks of economic appraisal are covered early, leading to techniques such as net present worth, internal rate of return and annual worth. Cost Benefit Analysis is dealt with in detail, together with related methods such as Cost Effectiveness and the Goal Achievement Matrix. The text also details three multi-criteria models which have proved useful in the evaluation of proposals in the transportation, solid waste, energy and water resources fields: the Simple Additive Weighting (SAW) Model, the Analytic Hierarchy Process (AHP) technique and Concordance Analysis. There is a full discussion dealing with risk and uncertainty in these models. With many worked examples and case studies, Engineering Project Appraisal is an essential text for both undergraduate and postgraduate students on professional civil engineering courses, and it is expected that students on planning and construction management courses will find it a valuable addition to their reading.

Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines is the most advanced, up-to-date and research-focused text on all aspects of wind energy engineering. Wind energy is pivotal in global electricity generation and for achieving future essential energy demands and targets. In this fast moving field this must-have edition starts with an in-depth look at the present

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state of wind integration and distribution worldwide, and continues with a high-level assessment of the advances in turbine technology and how the investment, planning, and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies looking at how recent research developments can be applied. Written by some of the most forward-thinking professionals in the field and giving a complete examination of one of the most promising and efficient sources of renewable energy, this book is an invaluable reference into this cross-disciplinary field for engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to the developments Uses system international (SI) units and imperial units throughout to appeal to global engineers Offers new case studies from a world expert in the field Covers the latest research developments in this fast moving, vital subject

How are the economic values of water and water quality accounted for in policy and project appraisal? This important book gives an overview of the state-of-the-art in Cost-Benefit Analysis (CBA) in water resources management throughout Europe and North America, along with an examination of current applications. The distinguished authors highlight problems and challenges encountered in the use of CBA in 15 country-specific case studies. Based on these case studies, the

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value and limits of CBA in water resources management are assessed and special attention is paid to the institutional and policy context in which CBA is carried out. Cost-Benefit Analysis and Water Resources Management is written for both academics and policymakers interested in the use and usefulness of CBA in water resources management.

The process of user-centered innovation: how it can benefit both users and manufacturers and how its emergence will bring changes in business models and in public policy. Innovation is rapidly becoming democratized. Users, aided by improvements in computer and communications technology, increasingly can develop their own new products and services. These innovating users—both individuals and firms—often freely share their innovations with others, creating user-innovation communities and a rich intellectual commons. In *Democratizing Innovation*, Eric von Hippel looks closely at this emerging system of user-centered innovation. He explains why and when users find it profitable to develop new products and services for themselves, and why it often pays users to reveal their innovations freely for the use of all. The trend toward democratized innovation can be seen in software and information products—most notably in the free and open-source software movement—but also in physical products. Von Hippel's many examples of user innovation in action range from surgical

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equipment to surfboards to software security features. He shows that product and service development is concentrated among "lead users," who are ahead on marketplace trends and whose innovations are often commercially attractive. Von Hippel argues that manufacturers should redesign their innovation processes and that they should systematically seek out innovations developed by users. He points to businesses—the custom semiconductor industry is one example—that have learned to assist user-innovators by providing them with toolkits for developing new products. User innovation has a positive impact on social welfare, and von Hippel proposes that government policies, including R&D subsidies and tax credits, should be realigned to eliminate biases against it. The goal of a democratized user-centered innovation system, says von Hippel, is well worth striving for. An electronic version of this book is available under a Creative Commons license.

The present book finds its roots in the International Conference on Methods and Applications of Multiple Criteria Decision Making held in Mons in May 1997. A small number of contributions to that conference were selected via a refereeing procedure and retained authors were requested to include in their final version their more recent results. This explains why some papers differ significantly from the original presentation. The introductory paper of Raynaud addresses the long

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range forecasts in Multiple Criteria Decision Making on the basis of a Delphi process that was run before and during the congress. In a second part, the French author explains how he and some of his partners could find the proof of an important conjecture : the iteration of a strongly monotonic choice function is not a strongly monotonic ranking function. The second part of the book covers methodological aspects of decision theory. The contribution of Bouyssou and Pirlot concerns the reformulation of classical conjoint measurement models that induce a complete and transitive preference binary relation on the set of alternatives which seem to be unrealistic when decision makers are asked to compare objects evaluated on several attributes. The authors propose to consider non transitive, non complete and non additive decomposable conjoint models. They define properties that characterize such models.

The second edition of Benefits Management has been updated with current examples, further insights from experience and recent research. It shows how the enduring challenges achieving business value from information systems and technology projects can be addressed successfully. The approach, which is synthesized from best practices, sound theories and proven techniques from a range of management disciplines, is exemplified from the authors' extensive experience of working with a wide range of organizations. The book includes

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examples from a wide variety of projects including non-IT projects. The book is written in an accessible style, ideal for practicing managers, and includes check lists and templates for using the processes, tools and techniques and real-life case studies of their application and impacts. The book now also includes: International survey results that reinforce the importance of the topic, the key management issues and evidence of how the more successful organizations' practices are closely aligned with those described in the book. A Benefits Management Maturity diagnostic which enables organizations to understand the reasons for their current investment success levels and then how to increase them. Discussion of the role and contribution Project Management Offices (PMOs): how they can improve the delivery of value IT projects. Further practical advice and guidance on Program and Portfolio Management, including findings from the authors' recent research in several large organizations.

Developing countries in the tropics have different natural conditions and different institutional and financial situations to industrialized countries. However, most textbooks on highway engineering are based on experience from industrialized countries with temperate climates, and deal only with specific problems. Road Engineering for Development (published as Highway and Traffic Engineering in Developing Countries in its first edition) provides a comprehensive description of

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the planning, design, construction and maintenance of roads in developing countries. It covers a wide range of technical and non-technical problems that may confront road engineers working in this area. The technical content of the book has been fully updated and current development issues are focused on. Designed as a fundamental text for civil engineering students this book also offers a broad, practical view of the subject for practising engineers. It has been written with the assistance of a number of world-renowned specialist professional engineers with many years experience in Africa, the Middle East, Asia and Central America.

ELECTRE and Decision Support focuses on the areas of engineering and infrastructure investment. It begins with some general comments about the different decision components within the project planning process - the definition of objectives, the identification of alternative courses of action, the establishing of criteria, the evaluation of alternatives and the final recommendation. The authors highlight the ability of Multicriteria Decision Aid to reconcile the economic, technical and environmental dimensions of the projects for its planners. They emphasize the complexity of this process, illustrating the importance of identifying the stakeholders within it, as they greatly influence the definition of the decision criteria. A brief case study illustrates these different aspects. Following a

comparison of Cost Benefit Analysis and Multicriteria Decision Aid, the introductory chapter sets out the structure of the book, with four subsequent chapters devoted to the methodology of ELECTRE and three outlining case studies involving different versions of ELECTRE. The chapters concentrating on the ELECTRE methodology first give an overview of the main MCDA methods before presenting the ELECTRE method in detail. Each chapter answers the following questions: (1) In what context should the ELECTRE methods be chosen? (2) Which version of the methods is most appropriate to apply to a given problem? Another chapter deals with a critical and delicate problem within MCDA - how to adequately assess the role played by each criterion in a given decision problem, and how this translates into an appropriate weighting for it. Each one covers a different civil engineering discipline and each uses a different version of ELECTRE. The final chapter on methodology presents some accessories which, when used with ELECTRE, can greatly enhance its usefulness in practice. This book is outstanding in many respects. I am convinced that the simple, clear and concise style of the authors will make this book accessible to very many readers. No important aspect of the subject is neglected, and the concise nature of this book does not hinder its originality. Last but not least, the manner in which the case studies are described allows the authors not only to demonstrate the validity

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of the approach and procedures presented, but also to help the reader understand how to apply them in an effective manner. Taken from the Foreword by Bernard Roy, University Paris-Dauphine

The Chinese Research Institute of Construction Management (CRIOCM) in collaboration with Shenzhen University (SZU) proudly invites all academics, researchers and professionals to participate in the CRIOCM 2012, the 17th International Symposium on "Advancement of Construction Management and Real Estate." We will uphold and preserve the idea and tradition of pragmatism and innovation, to offer an excellent academic and communication platform for academics and professionals to exchange information on the latest developments in real estate and construction management.

First published in 1979, Airport Engineering by Ashford and Wright, has become a classic textbook in the education of airport engineers and transportation planners. Over the past twenty years, construction of new airports in the US has waned as construction abroad boomed. This new edition of Airport Engineering will respond to this shift in the growth of airports globally, with a focus on the role of the International Civil Aviation Organization (ICAO), while still providing the best practices and tested fundamentals that have made the book successful for over 30 years.

Rarely has such a contentious and complex issue emerged in twenty-first century development as that of water. In this book, co-editors David Hemson, Kassin Kulindwa,

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Haakon Lein, and Adolfo Mascarenhas use a global spread of case studies to illustrate that water is not simply an issue of physical scarcity, but rather a complex and politically-driven issue with profound future implications, both in the developing world and outside it. The book argues that for the international community to achieve the Millennium Development Goals, governments must step in to protect the rights of the poor. Here, the links between poverty and access to clean water are explored with an eye to political reform that can end the exploitative policies of big business and help to shape a more equitable world for all.

The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest release of the Project Management Institute's Project Management Body of Knowledge (PMI®'s PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certification Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the intricate framework of organizational behavior and structure that can determine project success to the planning, scheduling, and controlling processes vital to effective project management, the new edition thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More

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than twenty-five case studies, including a new case on the Iridium Project covering all aspects of project management 400 discussion questions More than 125 multiple-choice questions (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Indexes the Times and its supplements.

It has long been assumed that product innovations are usually developed by product manufacturers, but this book shows that innovation occurs in different places in different industries.

This book explores the implications of newly developing risks such as hugely damaging hurricanes, new diseases, terrorist attacks, and disruptions to critical infrastructures.

This unique collection of over 200 photographs presents a vivid pictorial account of the development of Rosyth in the twentieth century. Through these pictures we discover all aspects of the town, from buildings and shops which no longer exist to the construction of the Dockyard and the work and leisure activities of the Rosyth people. The author, who lived his entire life in the community, has drawn on his own collection of postcards and photographs, as well as those from Dunfermline Public Library and the collection of former resident Edith May. Many of the images have never been published before, and feature visits to Rosyth from dignitaries such as Winston Churchill and King George VI. This book brings together a fascinating selection of pictures which will inspire many memories in long-time residents of the area and give newer residents an insight into the

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rich history of their town.

The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) provide the most comprehensive and balanced assessment of climate change available. This IPCC Working Group II volume provides a completely up-to-date scientific assessment of the impacts of climate change, the vulnerability of natural and human environments, and the potential for response through adaptation. Written by the world's leading experts, the IPCC volumes will again prove to be invaluable for researchers, students, and policymakers, and will form the standard reference works for policy decisions for government and industry worldwide.

Now in its second edition Maritime Economics provides a valuable introduction to the organisation and workings of the global shipping industry. The author outlines the economic theory as well as many of the operational practicalities involved. Extensively revised for the new edition, the book has many clear illustrations and tables. Topics covered include: * an overview of international trade * Maritime Law * economic organisation and principles * financing ships and shipping companies * market research and forecasting.

The majority of professors have never had a formal course in education, and the most common method for learning how to teach is on-the-job training. This represents a challenge for disciplines with ever more complex subject matter, and a lost opportunity

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when new active learning approaches to education are yielding dramatic improvements in student learning and retention. This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format useful for both new and experienced teachers. It is organized to start with specific, practical teaching applications and then leads to psychological and educational theories. The "practical orientation" section explains how to develop objectives and then use them to enhance student learning, and the "theoretical orientation" section discusses the theoretical basis for learning/teaching and its impact on students. Written mainly for PhD students and professors in all areas of engineering, the book may be used as a text for graduate-level classes and professional workshops or by professionals who wish to read it on their own. Although the focus is engineering education, most of this book will be useful to teachers in other disciplines. Teaching is a complex human activity, so it is impossible to develop a formula that guarantees it will be excellent. However, the methods in this book will help all professors become good teachers while spending less time preparing for the classroom. This is a new edition of the well-received volume published by McGraw-Hill in 1993. It includes an entirely revised section on the Accreditation Board for Engineering and Technology (ABET) and new sections on the characteristics of great teachers, different active learning methods, the application of technology in the classroom (from clickers to intelligent tutorial systems), and how people learn.

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Reviews the circumstances surrounding the Challenger accident to establish the probable cause or causes of the accident. Develops recommendations for corrective or other action based upon the Commission's findings and determinations. Color photos, charts and tables.

Drug overdose, driven largely by overdose related to the use of opioids, is now the leading cause of unintentional injury death in the United States. The ongoing opioid crisis lies at the intersection of two public health challenges: reducing the burden of suffering from pain and containing the rising toll of the harms that can arise from the use of opioid medications. Chronic pain and opioid use disorder both represent complex human conditions affecting millions of Americans and causing untold disability and loss of function. In the context of the growing opioid problem, the U.S. Food and Drug Administration (FDA) launched an Opioids Action Plan in early 2016. As part of this plan, the FDA asked the National Academies of Sciences, Engineering, and Medicine to convene a committee to update the state of the science on pain research, care, and education and to identify actions the FDA and others can take to respond to the opioid epidemic, with a particular focus on informing FDA's development of a formal method for incorporating individual and societal considerations into its risk-benefit framework for opioid approval and monitoring.

The repair, renovation and replacement of highway infrastructure, along with the provision of new highways, is a core element of civil engineering, so this book covers

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basic theory and practice in sufficient depth to provide a solid grounding to students of civil engineering and trainee practitioners. Moves in a logical sequence from the planning and economic justification for a highway, through the geometric design and traffic analysis of highway links and intersections, to the design and maintenance of both flexible and rigid pavements Covers geometric alignment of highways, junction and pavement design, structural design and pavement maintenance Includes detailed discussions of traffic analysis and the economic appraisal of projects Makes frequent reference to the Department of Transport's Design Manual for Roads and Bridges Places the provision of roads and motorways in context by introducing the economic, political, social and administrative dimensions of the subject

The management of construction projects is a wide ranging and challenging discipline in an increasingly international industry, facing continual challenges and demands for improvements in safety, in quality and cost control, and in the avoidance of contractual disputes. Construction Management grew out of a Leonardo da Vinci project to develop a series of Common Learning Outcomes for European Managers in Construction. Financed by the European Union, the project aimed to develop a library of basic materials for developing construction management skills for use in a pan-European context. Focused exclusively on the management of the construction phase of a building project from the contractor's point of view, Construction Management covers the complete range of topics of which mastery is required by the construction management professional for the effective delivery of new construction projects. With the continued internationalisation of the construction industry, Construction Management

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will be required reading for undergraduate and postgraduate students across Europe. This book presents general principles and methodologies of quantitative risk analysis; provides theory and practice of how to evaluate health, transport and education projects and describes how to assess the environmental impact of projects. It looks at how the tools of cost benefit analysis can be applied from the point of view of the private sector, public sector, bankers, and the country as a whole. It encourages analysts to answer a number of key questions that are likely to increase success rather than simply describing techniques. This book is aimed at all concerned with resource allocation and is presented in an accessible fashion. It is required reading at World Bank Institute courses.

Decades of research have demonstrated that the parent-child dyad and the environment of the family—which includes all primary caregivers—are at the foundation of children's well-being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs and services for families,

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changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. Parenting Matters identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the United States.

The 9th edition maintains the content on all soilmechanics subject areas - groundwater flow, soil physicalproperties, stresses, shear strength, consolidation and settlement,slope stability, retaining walls, shallow and deep foundations,highways, site investigation - but has been expanded to include adetailed explanation of how to use Eurocode 7 for geotechnicaldesign. The key change in this new edition is the expansion of thecontent covering Geotechnical Design to Eurocode 7. Redundantmaterial relating to the now defunct British Standards - no longerreferred to in degree teaching - has been removed. Building on the success of the earlier editions, this9th edition of Smith's Elements of SoilMechanics brings additional material on geotechnical design toEurocode 7 in an understandable format. Many worked examples areincluded to illustrate the processes for performing design to thisEuropean standard.

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Significant updates throughout the book have been made to reflect other developments in procedures and practices in the construction and site investigation industries. More worked examples and many new figures have been provided throughout. The illustrations have been improved and the new design and layout of the pages give a lift. Unique content to illustrate the use of Eurocode 7 with essential guidance on how to use the now fully published code clear content and well-organised structure takes complicated theories and processes and presents them in easy-to-understand formats. The book's website offers examples and downloads to further understanding of the use of Eurocode 7

<http://www.wiley.com/go/smith/soil>

This is a comprehensive book on infrastructure development and construction management. It is written keeping in mind the curricula of construction management programmes in India and abroad. It covers infrastructure development, the construction industry in India, financial analysis of the real estate industry in India, economic analysis of projects, tendering and bidding, contracts and contract management, FIDIC conditions of contract, construction disputes and claims, arbitration, conciliation and dispute resolution, international construction project exports and identifying, analysing and managing construction project risk. Thus, this book covers most of the construction management activities that are carried out at different stages of a construction project. This is an essential book for students of construction management, construction professionals, academicians and researchers.

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The recent rise to prominence of renewable energy and energy efficiency has been driven by their potential to lower the environmental impacts of energy use. As these technologies mature

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they must demonstrate not only their environmental benefits, but also their economic competitiveness. The relative costs and benefits of each potential project, whether large or small, must be systematically modelled and assessed before they can be financed and implemented. Renewable Energy and Energy Efficiency: Assessment of Projects and Policies deals with the appraisal of such projects against financial and non-financial criteria, illustrating the assessment tools necessary to make appropriate, evidence based decisions as efficiently as possible. The most important technologies are first described, stressing their economic and performance characteristics. Key project appraisal concepts are then introduced, approaches to modelling the cash flows in energy projects are described, and the issues of uncertainty and optimisation are fully discussed. These financial concepts, together with methods for estimating greenhouse gas emissions, are extended to address aspects of energy policy. Illustrated with many case studies this is an ideal introduction to financial and non-financial appraisal techniques as applied to energy efficient and renewable energy technologies.

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