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**Pavement Engineering Principles and Practice, Third Edition** *CRC Press* Pavement Engineering will cover the entire range of pavement construction, from soil preparation to structural design and life-cycle costing and analysis. It will link the concepts of mix and structural design, while also placing emphasis on pavement evaluation and rehabilitation techniques. State-of-the-art content will introduce the latest concepts and techniques, including ground-penetrating radar and seismic testing. This new edition will be fully updated, and add a new chapter on systems approaches to pavement engineering, with an emphasis on sustainability, as well as all new downloadable models and simulations. **High Performance Concrete** *CRC Press* A complete review of the fast-developing topic of high performance concrete (HPC) by one of the leading researchers in the field. It covers all aspects of HPC from materials, properties and technology, to construction and testing. The book will be valuable for all concrete technologists and construction engineers wishing to take advantage of the re **Decision Based Design** *CRC Press* In a presentation that formalizes what makes up decision based design, Decision Based Design defines the major concepts that go into product realization. It presents all major concepts in design decision making in an integrated way and covers the fundamentals of decision analysis in engineering design. It also trains engineers to understand the impacts of design decision. The author teaches concepts in demand modeling and customer preference modeling and provides examples. This book teaches most fundamental concepts encountered in engineering design like: concept generation, multiattribute decision analysis, reliability engineering, design optimization, simulation, and demand modeling. The book provides the tools engineering practitioners and researchers need to first understand that engineering design is best viewed as a sequence of decisions made by the stakeholders involved and then apply the decision based design concepts in practice. It

teaches fundamental concepts encountered in engineering design, such as concept generation, multiattribute decision analysis, reliability engineering, design optimization, simulation, and demand modeling. This book helps students and practitioners understand that there is a rigorous way to analyze engineering decisions taking into consideration all the potential technical and business impacts of their decisions. It can be used in its entirety to teach a course in decision based design, while selected chapters can also be used to cover courses in subdisciplines that make up decision based design.

**Soil and Rock Construction Materials** *CRC Press* An introduction to the investigation, extraction, processing and specification of natural soil and rock materials, with an emphasis on why particular material properties are sought and how they may be modified. The book covers the full range of soil and rock construction materials including crushed stone, sand and gravel, natural and prepared roadb

**Corrosion of Steel in Concrete Prevention, Diagnosis, Repair** *John Wiley & Sons* Steel-reinforced concrete is used ubiquitously as a building material due to its unique combination of the high compressive strength of concrete and the high tensile strength of steel. Therefore, reinforced concrete is an ideal composite material that is used for a wide range of applications in structural engineering such as buildings, bridges, tunnels, harbor quays, foundations, tanks and pipes. To ensure durability of these structures, however, measures must be taken to prevent, diagnose and, if necessary, repair damage to the material especially due to corrosion of the steel reinforcement. The book examines the different aspects of corrosion of steel in concrete, starting from basic and essential mechanisms of the phenomenon, moving up to practical consequences for designers, contractors and owners both for new and existing reinforced and prestressed concrete structures. It covers general aspects of corrosion and protection of reinforcement, forms of attack in the presence of carbonation and chlorides, problems of hydrogen embrittlement as well as techniques of diagnosis, monitoring and repair. This second edition updates the contents with recent findings on the different topics considered and bibliographic references, with particular attention to recent European standards. This book is a self-contained treatment for civil and construction engineers, material scientists, advanced students and architects concerned with the design and maintenance of reinforced concrete structures. Readers will benefit from the knowledge, tools, and methods needed to understand corrosion in reinforced concrete and how to prevent it or keep it within acceptable limits.

**Integrating Information Into the Engineering Design Process** Engineering design is a fundamental problem-solving model used by the discipline. Effective problem-solving requires the ability to find and incorporate quality information sources. To teach courses in this area effectively, educators need to understand the information needs of engineers and engineering students and their information gathering habits. This book provides essential guidance for engineering faculty and librarians wishing to better integrate information competencies into their curricular offerings. The treatment of the subject matter is pragmatic, accessible, and engaging. Rather than focusing on specific resources or interfaces, the book adopts a process-driven approach that outlasts changing information technologies. After several chapters introducing the conceptual underpinnings of the book, a sequence of shorter contributions go into more detail about specific steps in the design process and the information needs for those steps. While they are

based on the latest research and theory, the emphasis of the chapters is on usable knowledge. Designed to be accessible, they also include illustrative examples drawn from specific engineering sub-disciplines to show how the core concepts can be applied in those situations. **Bearing Capacity of Roads, Railways and Airfields Proceedings of the 10th International Conference on the Bearing Capacity of Roads, Railways and Airfields (BCRRA 2017), June 28-30, 2017, Athens, Greece** CRC Press Bearing Capacity of Roads, Railways and Airfields includes the contributions to the 10th International Conference on the Bearing Capacity of Roads, Railways and Airfields (BCRRA 2017, 28-30 June 2017, Athens, Greece). The papers cover aspects related to materials, laboratory testing, design, construction, maintenance and management systems of transport infrastructure, and focus on roads, railways and airfields. Additional aspects that concern new materials and characterization, alternative rehabilitation techniques, technological advances as well as pavement and railway track substructure sustainability are included. The contributions discuss new concepts and innovative solutions, and are concentrated but not limited on the following topics: · Unbound aggregate materials and soil properties · Bound materials characteristics, mechanical properties and testing · Effect of traffic loading · In-situ measurements techniques and monitoring · Structural evaluation · Pavement serviceability condition · Rehabilitation and maintenance issues · Geophysical assessment · Stabilization and reinforcement · Performance modeling · Environmental challenges · Life cycle assessment and sustainability Bearing Capacity of Roads, Railways and Airfields is essential reading for academics and professionals involved or interested in transport infrastructure systems, in particular roads, railways and airfields. **Shotcrete: More Engineering Developments Proceedings of the Second International Conference on Engineering Developments in Shotcrete, October 2004, Cairns, Queensland, Australia.** CRC Press Marking a crucial point in the sharing of research, this cutting-edge text spearheads advances in cross-industry expertise. Presenting papers addressing topics ranging from repair, accreditation of nozzlemen, and early-age performance, to the blast resistance of shotcrete linings, the work draws on contributions from individuals across the shotcret **Remediation Engineering Design Concepts, Second Edition** CRC Press "This second edition of Remediation Engineering will continue to be the seminal handbook that regulators must have on-hand to address any of the remediation issues they are grappling with daily. The book is wide-ranging, but specific enough to address any environmental remediation challenge." —Patricia Reyes, Interstate Technology Regulatory Council, Washington, DC, USA "This book offers the researcher, teacher, practitioner, student, and regulator with state-of-the-art advances in conducting site investigations and remediation for common and emerging contaminants. It is revolutionary in its approach to conducting subsurface investigation, which greatly influences a successful and appropriate response in assessing and addressing environmental risk. This book is a giant leap forward in understanding how contaminants behave and how to reduce risk to acceptable levels in the natural world." —Daniel T. Rogers, Amsted Industries Incorporated, Chicago, Illinois, USA "This text is a superb reference and a good tool for learning about state-of-the-art techniques in remediation of soil and groundwater. [It] will become a ready reference at many companies as the engineering

community creates increased value from remediation efforts around the world." —John Waites, AVX Corporation, Fountain Inn, South Carolina, USA Remediation Engineering was first published in 1996 and quickly became the go-to reference for a relatively young industry, offering the first comprehensive look at the state-of-the-science in treatment technologies of the time and the contaminants they applied to. This fully updated Second Edition will capture the fundamental advancements that have taken place during the last two decades within all the subdisciplines that form the foundation of the remediation engineering platform. It covers the entire spectrum of current technologies that are employed in the industry and also discusses future trends and how practitioners should anticipate and adapt to those needs. Features: Shares the latest paradigms in remediation design approach and contaminant hydrogeology Presents the landscape of new and emerging contaminants Details the current state of the practice for both conventional technologies, such as sparging and venting Examines newer technologies such as dynamic groundwater recirculation and injection-based remedies to address both organic and inorganic contaminants. Describes the advances in site characterization concepts such as smart investigations and digital conceptual site models. Includes all-new color photographs and figures. **Ultrasocial The Evolution of Human Nature and the Quest for a Sustainable Future** Cambridge University Press Society is an ultrasocial superorganism whose requirements take precedence over individuals. What does this mean for humanity's future? **The Technology Management Handbook** CRC Press If you are not already in a management position, chances are you soon will be. According to the Bureau of Statistics, the fastest growing areas of employment for engineers are in engineering/science management. With over 200 contributing authors, The Technology Management Handbook informs and assists the more than 1.5 million engineering managers in the practice of technical management. Written from the technical manager's perspective and written for technologists who are managers, The Technology Management Handbook presents in-depth information on the science and practice of management. Its comprehensive coverage encompasses the field of technology management, offering information on: Entrepreneurship Innovations Economics Marketing Product Development Manufacturing Finance Accounting Project Management Human Resources International Business **Library Collection Development for Professional Programs: Trends and Best Practices Trends and Best Practices** IGI Global Collection development, the process used by librarians to choose items for a particular library or section of a library, can be time-consuming and difficult due to the many factors that must be taken into consideration. Library Collection Development for Professional Programs: Trends and Best Practices addresses the challenging task of collection development in modern academic libraries, which is largely learned on the job. This publication contains practical advice and innovative strategies essential for current collection development librarians and future librarians seeking guidance in this complex position. **The Digitization of Healthcare New Challenges and Opportunities** Springer Combining conceptual, pragmatic and operational approaches, this edited collection addresses the demand for knowledge and understanding of IT in the healthcare sector. With new technology outbreaks, our vision of healthcare has been drastically changed, switching from a 'traditional' path to a digitalized one.

Providing an overview of the role of IT in the healthcare sector, *The Digitization of Healthcare* illustrates the potential benefits and challenges for all those involved in delivering care to the patient. The incursion of IT has disrupted the value chain and changed business models for companies working in the health sector, and also raised ethical issues and new paradigms about delivering care. This book illustrates the rise of patient empowerment through the development of patient communities such as PatientLikeMe, and medical collaborate platforms such as DockCheck, thus providing a necessary tool to patients, caregivers and academics alike. **Fiber-reinforced Composites Materials, Manufacturing, and Design Handbook of Structural Engineering** CRC Press Continuing the tradition of the best-selling Handbook of Structural Engineering, this second edition is a comprehensive reference to the broad spectrum of structural engineering, encapsulating the theoretical, practical, and computational aspects of the field. The authors address a myriad of topics, covering both traditional and innovative approaches to analysis, design, and rehabilitation. The second edition has been expanded and reorganized to be more informative and cohesive. It also follows the developments that have emerged in the field since the previous edition, such as advanced analysis for structural design, performance-based design of earthquake-resistant structures, lifecycle evaluation and condition assessment of existing structures, the use of high-performance materials for construction, and design for safety. Additionally, the book includes numerous tables, charts, and equations, as well as extensive references, reading lists, and websites for further study or more in-depth information. Emphasizing practical applications and easy implementation, this text reflects the increasingly global nature of engineering, compiling the efforts of an international panel of experts from industry and academia. This is a necessity for anyone studying or practicing in the field of structural engineering. New to this edition Fundamental theories of structural dynamics Advanced analysis Wind and earthquake-resistant design Design of prestressed concrete, masonry, timber, and glass structures Properties, behavior, and use of high-performance steel, concrete, and fiber-reinforced polymers Semirigid frame structures Structural bracing Structural design for fire safety **Systems Design and Engineering Facilitating Multidisciplinary Development Projects** CRC Press As its name implies, the aim of *Systems Design and Engineering: Facilitating Multidisciplinary Development Projects* is to help systems engineers develop the skills and thought processes needed to successfully develop and implement engineered systems. Such expertise typically does not come through study but from action, hard work, and cooperation. To that end, the authors have chosen a "hands-on" approach for presenting material rather than concentrating on theory, as so often is the case in a classroom setting. This attractive and accessible text is a mix of theory and practical approach, illustrated with examples that have enough richness and variability to hold your attention. Models are presented for controlling the design, change, and engineering processes. Various aspects of systems engineering and methods providing the big picture at system level are discussed. In some ways, you can think of the book as a compact "starter's kit" for systems engineers. Although the authors are recognized experts in academic settings, they attribute much of their success in systems engineering to their own hands-on experiences and want to show you how to achieve that same level of expertise. Simply reading this book or any

other book will not suffice for the learning process to become a systems engineer - no book will do that. However, by following the principles laid out in this book, you can develop the necessary skills and expertise to help you start an interesting, challenging, and rewarding career as a systems engineer.

**Gender Matters in Global Politics A Feminist Introduction to International Relations** *Routledge* Fully revised and updated, this second edition of Gender Matters in Global Politics is a comprehensive textbook for advanced undergraduates studying feminism & international relations, gender and global politics and similar courses. It provides students with an accessible but in-depth account of the most significant theories, methodologies, debates and issues. This textbook is written by an international line-up of established and emerging scholars from a range of theoretical perspectives, and brings together cutting-edge feminist scholarship in a variety of issue areas. Key features and benefits of the book: Introduces students to the wide variety of feminist and gender theory and explains the relevance to contemporary global politics Explains the insights of feminist theory for a range of other disciplines including international relations, international political economy and security studies Addresses a large number of key contemporary issues such as human rights, trafficking, rape as a tool of war, peacekeeping and state-building, terrorism and environmental politics Features detailed pedagogical tools and resources - seminar exercises, text boxes, photographs, suggestions for further reading, web resources and a glossary of key terms New chapters on - Environmental politics and ecology; War; Terrorism and political violence; Land, food and water; International legal institutions; Peacebuilding institutions and post-conflict reconstruction; Citizenship; Art, aesthetics and emotionality; and New social media and global resistance. This text enables students to develop a sophisticated understanding of the work that gender does in policies and practices of global politics.

**Concrete in the Marine Environment** *CRC Press* Concrete has clearly emerged as the most economical and durable material for the building of the vast majority of marine structures. Reinforced concrete too has overcome the technological problems making it a suitable material for the construction of advanced marine structures such as offshore drilling platforms, superspan bridges and undersea tunnels.

**Disaster Risk Reduction Approaches in Pakistan** *Springer* This book is a pioneering regional work and provides a balanced approach of theory and practice in disaster risk reduction (DRR) in Pakistan. The book analytically discusses the status of DRR and draws examples and lessons from national and community-level programs and projects and events in the country. The book covers different types of disasters facing Pakistan, including geo-physical and hydro-meteorological hazards. This work incorporates and draws some of the key lessons learned from the pre-disaster and disaster phases to the post-disaster phase, providing an effective framework in the form of those lessons. The rich content is based on a selection of available documents, a consultative workshop with academicians from different universities undertaking DRR higher education programs, and the editors' own knowledge and experience in the field. Special emphasis is given to analyzing field experiences from academic perspectives, and pinpointing key issues and the policy relevance of DRR. Disaster Risk Reduction Approaches in Pakistan is organized into three sections with a total of 20 chapters. Section one provides the outline and basics of DRR strategies applied at the national level with supporting examples from a global review. Section two

specifically highlights the wide ranges of hazards experienced in Pakistan and presents examples, policy options, institutional set-ups, risk reduction strategies, and key lessons learned. The third section of the book is given to approaches and issues of DRR practices with examples of disaster responses. **Bridge Engineering Handbook Volume 1** CRC Press First Published in 1999: The Bridge Engineering Handbook is a unique, comprehensive, and state-of-the-art reference work and resource book covering the major areas of bridge engineering with the theme "bridge to the 21st century." **Corrosion of Steel in Concrete Structures** Woodhead Publishing Corrosion of reinforcing steel is now recognized as the major cause of degradation of concrete structures in many parts of the world. Despite this, infrastructure expenditure is being unreasonably decreased by sequestration and the incredible shrinking discretionary budget. All components of our infrastructure including highways, airports, water supply, waste treatment, energy supply, and power generation require significant investment and are subjected to degradation by corrosion, which significantly reduces the service life, reliability, functionality of structures and equipment, and safety. Corrosion of Steel in Concrete Structures provides a comprehensive review of the subject, in addition to recent advances in research and technological developments, from reinforcing materials to measurement techniques and modelling. This book contains not only all the important aspects in the field of corrosion of steel reinforced concrete but also discusses new topics and future trends. Part One of the book tackles theoretical concepts of corrosion of steel in concrete structures. The second part moves on to analyse the variety of reinforcing materials and concrete, including stainless steel and galvanized steel. Part Three covers measurements and evaluations, such as electrochemical techniques and acoustic emission. Part Four reviews protection and maintenance methods, whilst the final section analyses modelling, latest developments and future trends in the field. The book is essential reading for researchers, practitioners and engineers who are involved in materials characterisation and corrosion of steel in concrete structures. Provides comprehensive coverage on a broad range of topics related to the corrosion of steel bars in concrete Discusses the latest measuring methods and advanced modeling techniques Reviews the range of reinforcing materials and types of concrete **Advanced Rail Geotechnology - Ballasted Track** CRC Press Ballast plays a vital role in transmitting and distributing train wheel loads to the underlying sub-ballast and subgrade. Bearing capacity of track, train speed, riding quality and passenger comfort all depend on the stability of ballast through mechanical interlocking of particles. Ballast attrition and breakage occur progressively under heavy cyc **Strain-Hardening Cement-Based Composites SHCC4** Springer This is the proceedings of the 4th International Conference on Strain-Hardening Cement-Based Composites (SHCC4), that was held at the Technische Universität Dresden, Germany from 18 to 20 September 2017. The conference focused on advanced fiber-reinforced concrete materials such as strain-hardening cement-based composites (SHCC), textile-reinforced concrete (TRC) and high-performance fiber-reinforced cement-based composites (HPFRCC). All these new materials exhibit pseudo-ductile behavior resulting from the formation of multiple, fine cracks when subject to tensile loading. The use of such types of fiber-reinforced concrete could revolutionize the planning, development, dimensioning, structural and architectural design, construction of new and strengthening

and repair of existing buildings and structures in many areas of application. The SHCC4 Conference was the follow-up of three previous successful international events in Stellenbosch, South Africa in 2009, Rio de Janeiro, Brazil in 2011, and Dordrecht, The Netherlands in 2014. **Gender Trouble Feminism and the Subversion of Identity** *Routledge* Since its initial publication in 1990, this book has become a key work of contemporary feminist theory, and an essential work for anyone interested in the study of gender, queer theory, or the politics of sexuality in culture. This is the text where the author began to advance the ideas that would go on to take life as "performativity theory," as well as some of the first articulations of the possibility for subversive gender practices. Overall, this book offers a powerful critique of heteronormativity and of the function of gender in the modern world. **Waste Materials in Construction Science and Engineering of Recycling for Environmental Protection** *Elsevier* This volume presents the proceedings of the International Conference on The Science and Engineering of Recycling for Environmental Protection (WASCON 2000), of which a number of themes have been identified. All are inter-related and inter-dependent in so far as potential users of secondary, recovered or recycled material have to be assured that the material is environmentally safe and stable. It is the environmental challenge that forms a leading theme for the conference, and the themes of quality assurance and quality control support this aspect. In terms of use of 'recovered' materials, science and engineering play important and inter-dependent roles and this is reflected in themes which form the very core of the conference. Of no less importance is control of land contamination and how we propose to model for the long term impact of our aims. However dutiful and competent our ideas and studies, there has to be a measure of control and the role of legislation forms the final theme of WASCON 2000. The breadth of studies being undertaken world-wide and the innovative ideas that are expressed in papers submitted are worthy of this important subject. It is also interesting to note that papers were offered from 30 countries, a sign of the increasing awareness of the need to preserve our natural resources and utilize to the full those with which we are more familiar. This book will contribute to the understanding of and solution of environmental problems concerning the re-use of waste materials in construction. **Introduction to UAV Systems** *John Wiley & Sons* Unmanned aerial vehicles (UAVs) have been widely adopted in the military world over the last decade and the success of these military applications is increasingly driving efforts to establish unmanned aircraft in non-military roles. Introduction to UAV Systems, 4th edition provides a comprehensive introduction to all of the elements of a complete Unmanned Aircraft System (UAS). It addresses the air vehicle, mission planning and control, several types of mission payloads, data links and how they interact with mission performance, and launch and recovery concepts. This book provides enough information to encourage a student to learn more; to provide a specialist with a basic appreciation of the technical issues that drive other parts of the system and interact with their specialty; or to help a program manager understand system-level tradeoffs and know what questions to ask. Key features: Comprehensive overview of all elements of a UAS and of how they interact. Introduces the underlying concepts of key subsystems. Emphasizes system-integration issues and how they relate to subsystem design choices. Practical discussion of issues informed by lessons learned in UAV programs.

Introduction to UAV Systems, 4th edition is written both for newcomers to the subject and for experienced members of the UAV community who desire a comprehensive overview at the system level. As well as being a primary text for an introductory course on UAS or a supplementary text in a course that goes into more depth in one of the individual technologies involved in a UAS, this book is a useful overview for practicing engineers, researchers, managers, and consultants interested in UAV systems.

**Concrete Repair, Rehabilitation and Retrofitting** CRC Press/ Llc The First International Conference on Concrete Repair, Rehabilitation and Retrofitting (ICCRRR 2005) was held in Cape Town, South Africa, from 21-23 November 2005. The conference was a collaborative venture by researchers from the South African Research Programme in Concrete Materials (based at the Universities of Cape Town and The Witwatersrand) and The Construction Materials Section at Leipzig University in Germany. The conference has come at an opportune moment for concrete construction worldwide and sought to focus on an increasingly important aspect in modern infrastructure provision and retention: that of appropriately repairing, maintaining, rehabilitating, and if necessary retrofitting existing infrastructure with a view to extending its life and maximising its economic return. The conference Proceedings contain papers, presented at the conference, and classified into a total of 15 sub themes which can be grouped under the four main themes of (i) Concrete durability aspects, (ii) Condition assessment of concrete structures, (iii) Concrete repair, rehabilitation and retrofitting, and (iv) Performance monitoring and health assessment. The major interest in terms of submissions exists in the fields of concrete durability aspects in connection with material compositions, NDE/NDT and measurement techniques, repair methods and materials, and structural strengthening and retrofitting techniques. The large number of high-quality papers presented and the wide range of relevant topics covered confirm that these Proceedings will be a valued reference for many working in the important fields of concrete durability and repair and that they form a suitable base for discussion and provide suggestions for future development and research.

**Feminism Is for Everybody Passionate Politics** Routledge What is feminism? In this short, accessible primer, bell hooks explores the nature of feminism and its positive promise to eliminate sexism, sexist exploitation, and oppression. With her characteristic clarity and directness, hooks encourages readers to see how feminism can touch and change their lives—to see that feminism is for everybody.

**Waste Materials Used in Concrete Manufacturing** Elsevier The environmental aspects involved in the production and use of cement, concrete and other building materials are of growing importance. CO<sub>2</sub> emissions are 0.8-1.3 ton/ton of cement production in dry process. SO<sub>2</sub> emission is also very high, but is dependent upon the type of fuel used. Energy consumption is also very high at 100-150 KWT/ton of cement produced. It is costly to erect new cement plants. Substitution of waste materials will conserve dwindling resources, and will avoid the environmental and ecological damages caused by quarrying and exploitation of the raw materials for making cement. To some extent, it will help to solve the problem otherwise encountered in disposing of the wastes. Partial replacement of clinker or portland cement by slag, fly ash, silica fume and natural rock minerals illustrates these aspects. Partial replacement by natural materials that require little or no processing, such as pozzolans, calcined clays, etc., saves energy and

decreases emission of gases. The output of waste materials suitable as cement replacement (slags, fly ashes, silica fumes, rice husk ash, etc.) is more than double that of cement production. These waste materials can partly be used, or processed, to produce materials suitable as aggregates or fillers in concrete. These can also be used as clinker raw materials, or processed into cementing systems. New grinding and mixing technology will make the use of these secondary materials simpler. Developments in chemical admixtures: superplasticizers, air entraining agents, etc., help in controlling production techniques and, in achieving the desired properties in concrete. Use of waste products is not only a partial solution to environmental and ecological problems; it significantly improves the microstructure, and consequently the durability properties of concrete, which are difficult to achieve by the use of pure portland cement. The aim is not only to make the cements and concrete less expensive, but to provide a blend of tailored properties of waste materials and portland cements suitable for specified purpose. This requires a better understanding of chemistry, and materials science. There is an increasing demand for better understanding of material properties, as well as better control of the microstructure developing in the construction material, to increase durability. The combination of different binders and modifiers to produce cheaper and more durable building materials will solve to some extent the ecological and environmental problems.

**Earthquake Engineering for Structural Design** *CRC Press* Many important advances in designing earthquake-resistant structures have occurred over the last several years. Civil engineers need an authoritative source of information that reflects the issues that are unique to the field. Comprising chapters selected from the second edition of the best-selling Handbook of Structural Engineering,

**Earthquake Eng Handbook of International Bridge Engineering** *CRC Press* This comprehensive and up-to-date reference work and resource book covers state-of-the-art and state-of-the-practice for bridge engineering worldwide. Countries covered include Canada and the United States in North America; Argentina and Brazil in South America; Bosnia, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Greece, Macedonia, **Biotechnology for Odor and Air Pollution Control** *Springer Science & Business*

*Media* Here is the first book on biotechnological processes for controlling odor and air pollution emanating from industrial and municipal airstreams. Authors from academia and industry describe biotechnological methods ranging from those in laboratory stages to pilot evaluation to full-scale process implementation. In addition to the basic microbiology and engineering, the design, modeling, and control of bioreactors are discussed in detail. **Immersed Tunnels** *CRC Press* Immersed tunnels have been around for more than a century but remain a relatively unknown form of tunnel construction. For waterway crossings they are an effective alternative to bored tunnels and bridges, particularly in shallower waters, soft alluvial soils, and earthquake-prone areas. Successful implementation requires a thorough understanding of a wide variety of civil engineering disciplines and construction techniques. Immersed Tunnels brings together in one volume all aspects of immersed tunnels from initial feasibility and planning, through design and construction, to operation and maintenance. Get Valuable Insights into Immersed Tunnel Engineering from Expert Practitioners The book presents design and construction principles to give a full appreciation not only of what is involved in an immersed tunnel scheme but also how

potential problems are dealt with and overcome. It examines important factors that have to be considered, particularly environmental implications and mechanical and electrical systems. It also gives practical examples of how specific techniques have been used in various projects and highlights issues that designers and constructors should be aware of. In addition, the book discusses operation and maintenance and reviews contractual matters. These aspects are described from the viewpoint of two experienced practitioners in the field who have a wealth of experience on immersed tunnel projects worldwide. As tunnels are increasingly being adopted as engineering solutions around the world, this unique and extensively illustrated reference explores the wide variety of immersed tunnel techniques available to designers and constructors. It provides essential insight for anyone involved, or seeking to be involved, with immersed tunnel projects.

**Digital Identity Management** Elsevier In the past four decades, information technology has altered chains of value production, distribution, and information access at a significant rate. These changes, although they have shaken up numerous economic models, have so far not radically challenged the bases of our society. This book addresses our current progress and viewpoints on digital identity management in different fields (social networks, cloud computing, Internet of Things (IoT), with input from experts in computer science, law, economics and sociology. Within this multidisciplinary and scientific context, having crossed analysis on the digital ID issue, it describes the different technical and legal approaches to protect digital identities with a focus on authentication systems, identity federation techniques and privacy preservation solutions. The limitations of these solutions and research issues in this field are also discussed to further understand the changes that are taking place. Offers a state of the discussions and work places on the management of digital identities in various contexts, such as social networking, cloud computing and the Internet of Things Describes the advanced technical and legal measures to protect digital identities Contains a strong emphasis of authentication techniques, identity federation tools and technical protection of privacy

**Evolution of Ionizing Radiation Research** BoD - Books on Demand The industrial and medical applications of radiation have been augmented and scientific insight into mechanisms for radiation action notably progressed. In addition, the public concern about radiation risk has also grown extensively. Today the importance of risk communication among stakeholders involved in radiation-related issues is emphasized much more than any time in the past. Thus, the circumstances of radiation research have drastically changed, and the demand for a novel approach to radiation-related issues is increasing. It is thought that the publication of the book Evolution of Ionizing Radiation Research at this time would have enormous impacts on the society. The editor believes that technical experts would find a variety of new ideas and hints in this book that would be helpful to them to tackle ionizing radiation.

**Democracy and Public Administration in Pakistan** CRC Press This book explores the role of the grass roots public administrative institution of DC & DM in historical context for Pakistan, and its viability for a meaningful democracy and stability of the country. The authors contend that Pakistan's democracy to-date lacks firm foundation, as evidenced by the country's disintegration in 1971, violence and drugs in the 80s, crime infested communities in the 90s, terrorism in the 2000s, and the current volatile situation in Balochistan and FATA, as well as high crime rate

and lacking sense of security among the communities of Pakistan. **Cybercriminology** *Oxford University Press, USA* A unique and comprehensive overview of the field and its current issues, *Cybercriminology* analyzes cybercrimes through the lens of criminology. Featuring an accessible, conversational writing style, it first discusses traditional criminological theories of criminal behavior and then analyzes how these theories--the existing literature and empirical studies--can be applied to explain cybercrimes. The text also introduces students to types of cybercrime, the nature and extent of cybercrime in the U.S. and abroad, and victim and offender behavior in the online environment. FEATURES \* Real-world case studies and examples demonstrate the extent and complexity of cybercriminology \* Boxed features present compelling research topics and scenarios \* Review questions stimulate classroom discussions \* An Ancillary Resource Center contains an Instructor's Manual, a Test Bank, and PowerPoint lecture outlines **Recognizing Public Value** *Harvard University Press* Moore's classic *Creating Public Value* offered advice to managers about how to create public value, but left unresolved the question how one could recognize when public value had been created. Here, he closes the gap by helping public managers name, observe, and count the value they produce and sustain or increase public value into the future. **Public Administration in Post-Communist Countries Former Soviet Union, Central and Eastern Europe, and Mongolia** *CRC Press* Although it has been more than 20 years since Communism crumbled in Central and Eastern Europe and the Soviet Union, many scholars and politicians still wonder what the lifting of the Iron Curtain has really meant for these former Communist countries. And, because these countries were largely closed off to the world for so long, there has yet to be an all-inclusive study on their administrative systems—until now. In *Public Administration in Post-Communist Countries: Former Soviet Union, Central and Eastern Europe, and Mongolia*, expert contributors supply a comprehensive overview and analysis of public administration in their respective post-Communist countries. They illustrate each country's transformation from an authoritarian system of governance into a modern, market-based, and in some cases, democratic government. The book covers the countries that were officially part of the Soviet Union (Russia, Ukraine, Moldova, Estonia, Lithuania, Georgia, Kazakhstan, and Kyrgyzstan); those that were theoretically independent but were subject to Soviet-dominated Communist rule (Bulgaria, Hungary, Romania, and Poland); as well as a satellite republic that was under significant Soviet influence (Mongolia). Each chapter includes a brief introduction to the specific country, an overview of politics and administration, and discussions on key aspects of public management and administration—including human resource management, public budgeting, financial management, corruption, accountability, political and economic reform, civil society, and prospects for future development in the region. The book concludes by identifying common themes and trends and pinpointing similarities and differences to supply you with a broad comparative perspective. **Ain't I a Woman Black Women and Feminism** "Ain't I a Woman : Black Women and Feminism is among America's most influential works. Prolific, outspoken, and fearless."- *The Village Voice* "This book is a classic. It . . . should be read by anyone who takes feminism seriously."- Sojourner "Ain't I a Woman ] should be widely read, thoughtfully considered, discussed, and finally acclaimed for the real enlightenment it offers for social

change."- Library Journal Â "One of the twenty most influential women's books of the last twenty years."- Publishers Weekly Â "I met a young sister who was a feminist, and she gave me a book called Ain't I a Woman by a talented, beautiful sister named bell hooks-and it changed my life. It changed my whole perspective of myself as a woman."-Jada Pinkett-Smith Â At nineteen, bell hooks began writing the book that forever changed the course of feminist thought. Ain't I a Woman remains a classic analysis of the impact of sexism on black women during slavery, the historic devaluation of black womanhood, black male sexism, racism within the women's movement, and black women's involvement with feminism. Â bell hooks is the author of numerous critically acclaimed and influential books on the politics of race, gender, class, and culture. The Atlantic Monthly celebrates her as one of our nation's leading public intellectuals .