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KEY=SOLUTION - BYRON LIN

Sustainable Solutions for Water Resources Policies, Planning, Design, and Implementation John Wiley & Sons Get the single-source solutions guide to the sustainable management of water resources. Why is water the environmental issue? The answer is simple: without it, life on this planet could not exist. Yet, despite this fact, reckless consumption practices from a growing population are drying up the Earth's already limited water resources. Other factors, such as river and lake contamination, rising temperatures, and disproportionate geographic accessibility further contribute to the fresh water crisis. To confront this pressing concern, this enlightening guide, which covers over twenty case studies offering insights into real-world projects, uses a holistic, integrated approach to illustrate ways to preserve vital water supplies -- from green design remedies to encouraging greater personal responsibility. This book: Provides a basic overview of water resources, hydrology, current problems involving water resources, and the potential impact of global warming and climate change. Covers watershed planning, Best Management Practices, and potential design and planning solutions. Offers a concise overview of the issues affecting water use and management. Includes a full

chapter dedicated to planning issues, and a full chapter covering site planning, design, and implementation. **Sustainable Solutions for Water Resources** takes a practical approach to head off a global water catastrophe by offering sensible measures that can be put in place immediately to promote a clean, plentiful flow of the Earth's most precious resource. **Routledge Handbook of Water and Health** Routledge This comprehensive handbook provides an authoritative source of information on global water and health, suitable for interdisciplinary teaching for advanced undergraduate and postgraduate students. It covers both developing and developed country concerns. It is organized into sections covering: hazards (including disease, chemicals and other contaminants); exposure; interventions; intervention implementation; distal influences; policies and their implementation; investigative tools; and historic cases. It offers 71 analytical and engaging chapters, each representing a session of teaching or graduate seminar. Written by a team of expert authors from around the world, many of whom are actively teaching the subject, the book provides a thorough and balanced overview of current knowledge, issues and relevant debates, integrating information from the environmental, health and social sciences. **Principles of Water Treatment** John Wiley & Sons **Principles of Water Treatment** has been developed from the best selling reference work **Water Treatment**, 3rd edition by the same author team. It maintains the same quality writing, illustrations, and worked examples as the larger book, but in a smaller format which focuses on the treatment processes and not on the design of the facilities. **Biological Wastewater Treatment: Principles, Modeling and Design** IWA Publishing The first edition of this book was published in 2008 and it went on to become IWA Publishing's bestseller. Clearly there was a need for it because over the twenty years prior to 2008, the knowledge and understanding of wastewater treatment had advanced extensively and moved away from empirically-based approaches to a fundamental first-principles approach based on chemistry, microbiology, physical and bioprocess engineering, mathematics and modelling. However the quantity, complexity and diversity of these new developments was overwhelming for young water professionals, particularly in developing countries without readily available access to advanced-level tertiary education courses in wastewater treatment. For a whole new generation of young scientists and engineers entering the wastewater treatment profession, this book assembled and integrated the postgraduate course material of a dozen or so professors from research groups around the world who have made significant contributions to the advances in wastewater treatment. This material had matured to the degree that it had been codified into mathematical models for simulation with computers. The first edition of the book offered, that upon completion of an in-depth study of its contents, the modern approach of modelling and simulation in wastewater treatment plant design and operation could be embraced with deeper insight, advanced knowledge and greater confidence, be it activated sludge, biological nitrogen and phosphorus removal, secondary settling tanks, or

biofilm systems. However, the advances and developments in wastewater treatment have accelerated over the past 12 years since publication of the first edition. While all the chapters of the first edition have been updated to accommodate these advances and developments, some, such as granular sludge, membrane bioreactors, sulphur conversion-based bioprocesses and biofilm reactors which were new in 2008, have matured into new industry approaches and are also now included in this second edition. The target readership of this second edition remains the young water professionals, who will still be active in the field of protecting our precious water resources long after the aging professors who are leading some of these advances have retired. The authors, all still active in the field, are aware that cleaning dirty water has become more complex but that it is even more urgent now than 12 years ago, and offer this second edition to help the young water professionals engage with the scientific and bioprocess engineering principles of wastewater treatment science and technology with deeper insight, advanced knowledge and greater confidence built on stronger competence. Water Treatment Principles and Design Wiley-Interscience Drawing on the vast experience of the most respected firm in the industry, Water Treatment Principles and Design is the first major reference on the science of water treatment in several decades. It covers both the practical and theoretical aspects of water quality analysis, treatment plant operation, and facility design, and provides detailed descriptions of processes such as coagulation and flocculation, sedimentation, filtration, ion exchange, and adsorption. In addition, it offers one of the most extensive discussions ever published on design criteria, including component description and organization, aeration equipment, upflow clarifiers, disinfection, and materials. The Civil Engineering Handbook CRC Press First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil engineering research and practice. The Civil Engineering Handbook, Second Edition is more comprehensive than ever. You'll find new, updated, and expanded coverage in every section. In fact, more than 1/3 of the handbook is new or substantially revised. In particular you'll find increased focus on computing reflecting the rapid advances in computer technology that has revolutionized many aspects of civil engineering. You'll use it as a survey of the field, you'll use it to explore a particular subject, but most of all you'll use The Civil Engineering Handbook to answer the problems, questions, and conundrums you encounter in practice. Principles of Water Treatment John Wiley & Sons Principles of Water Treatment has been developed from the best selling reference work Water Treatment, 3rd edition by the same author team. It maintains the same quality writing, illustrations, and worked examples as the larger book, but in a smaller format which focuses on the treatment processes and not on the design of the facilities. Planning and Urban

Design Standards John Wiley & Sons From the publishers of Architectural Graphic Standards, this book, created under the auspices of The American Planning Association, is the most comprehensive reference book on urban planning, design, and development available today. Contributions from more than two hundred renowned professionals provide rules of thumb and best practices for mitigating such environmental impacts as noise, traffic, aesthetics, preservation of green space and wildlife, water quality, and more. You get in-depth information on the tools and techniques used to achieve planning and design outcomes, including economic analysis, mapping, visualization, legal foundations, and real estate developments. Thousands of illustrations, examples of custom work by today's leading planners, and insider information make this work the new standard in the field. Order your copy today. **MWH's Water Treatment Principles and Design John Wiley & Sons** the definitive guide to the theory and practice of water treatment engineering **THIS NEWLY REVISED EDITION** of the classic reference provides complete, up-to-date coverage of both theory and practice of water treatment system design. The Third Edition brings the field up to date, addressing new regulatory requirements, ongoing environmental concerns, and the emergence of pharmacological agents and other new chemical constituents in water. Written by some of the foremost experts in the field of public water supply, **Water Treatment, Third Edition** maintains the book's broad scope and reach, while reorganizing the material for even greater clarity and readability. Topics span from the fundamentals of water chemistry and microbiology to the latest methods for detecting constituents in water, leading-edge technologies for implementing water treatment processes, and the increasingly important topic of managing residuals from water treatment plants. Along with hundreds of illustrations, photographs, and extensive tables listing chemical properties and design data, this volume: Introduces a number of new topics such as advanced oxidation and enhanced coagulation Discusses treatment strategies for removing pharmaceuticals and personal care products Examines advanced treatment technologies such as membrane filtration, reverse osmosis, and ozone addition Details reverse osmosis applications for brackish groundwater, wastewater, and other water sources Provides new case studies demonstrating the synthesis of full-scale treatment trains A must-have resource for engineers designing or operating water treatment plants, **Water Treatment, Third Edition** is also useful for students of civil, environmental, and water resources engineering. **User's Manual for Premining Planning of Eastern Surface Coal Mining Vol. 2** , **Surface Mine Engineering User's Manual for Premining Planning of Eastern Surface Coal Mining Volume 5**, **Mine Drainage Management and Monitoring Sustainable Development of Water and Environment Proceedings of the ICSDWE2021 Springer Nature** This book addresses the improvement and dissemination of knowledge on methods, policies and technologies for increasing the sustainability of development by de-coupling growth from natural resources and replacing them with knowledge-based economy, taking into account its economic,

environmental and social pillars, as well as methods for assessing and measuring sustainability of development, regarding water and environment. This book gathers scholar and experts in related fields. All attendees from a vast range of companies, universities and government institutions acquire advanced technical knowledge and are introduced to new fields through discussions that focus on their own specialties as well as a variety of interdisciplinary areas. The authors hope most of scholars can find what they really need in this book. The Natural Building Companion A Comprehensive Guide to Integrative Design and Construction Chelsea Green Publishing "Natural buildings not only bring satisfaction to their makers and joy to their occupants, they also leave the gentlest footprint on the environment. In this complete reference to natural building philosophy, design, and technique, Jacob Deva Racusin and Ace McArleton walk builders through planning and construction. The Natural Building Companion--provides the tools necessary to understand basic principles of building science, including structural and thermal engineering, and hydrodynamics. This guide offers thorough, up-to-date, and advanced installation details and performance characteristics of straw-bale, straw-clay, woodchip-clay, and cellulose wall systems, as well as earthen and stone wall systems and a variety of framing, roofing, flooring, mechanical system, and finishing options. This fully-illustrated volume informs professionals making the transition from conventional building, homeowners embarking on their own construction, or green builders who want comprehensive guidance on natural-building options. The book, part of the The Yestermorrow Design/Build Library, is accompanied by an instructional DVD"-- Monthly Catalog of United States Government Publications February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index Regenerative Sanitation A New Paradigm For Sanitation 4.0 IWA Publishing This book proposes Regenerative Sanitation as the next era of sanitation management and attempts to provide a foundation for the study of sanitation on the premise that sanitation is a complex and dynamic system that comprises of social-ecological, technological and resource systems. The preconception is that sanitation will deliver maximal benefits to society only when there exists a cyclical integration of the three subsystems to enable appropriate linkages between 'technological design' and the 'delivery platform' so as to achieve optimal and sustained sani-solutions. It also calls for the rethinking of sanitation to change the narrative towards more progressive trajectories such as resource recovery and reuse rather than just amelioration. It explores the contributions to food security, livelihood support, urban regeneration, rural development and even local economies. A new paradigm, theory and ten principles for ensuring practical and effective sanitation solutions and management is presented. In addition is a unique conceptual framework applicable to both developed and developing countries, and to all stages, processes and cycles of delivering sanitation solutions that

could critically evaluate, analyse and provide credible, adequate and appropriate sanitation solutions. All of which culminates in a strategic and practical application platform called 'Sanitation 4.0' that advocates for total rejuvenation and comprehensive overhaul with eight key strategic considerations for the implementation. **Regenerative Sanitation: A New Paradigm For Sanitation 4.0** is inter and trans- disciplinary and encourages collaboration between engineers, scientists, technologists, social scientists and others to provide effective and practical user-centred solutions. It includes relevant case studies, examples, exercise and future research recommendations. It is written as both a textbook for researchers and students as well as a practitioners' guide for policymakers and professionals. **Selected Water Resources Abstracts Handbook for Critical Cleaning: Cleaning agents and systems** CRC Press "Updated, re-organized, and rewritten, this second edition of a bestseller covers cleaning processes, applications, management, safety, and environmental concerns. A two-volume set, it discusses cleaning process applications, management, and safety and environmental concerns. International contributors give the text a global viewpoint. Color illustrations, video clips, and animations that make the information accessible are available from the website. The handbook is available for purchase individually or as the two-volume set"-- **Biological Wastewater Treatment** IWA Publishing For information on the online course in Biological Wastewater Treatment from UNESCO-IHE, visit:

<http://www.iwapublishing.co.uk/books/biological-wastewater-treatment-online-course-principles-modeling-and-design>
Over the past twenty years, the knowledge and understanding of wastewater treatment have advanced extensively and moved away from empirically-based approaches to a first principles approach embracing chemistry, microbiology, physical and bioprocess engineering, and mathematics. Many of these advances have matured to the degree that they have been codified into mathematical models for simulation with computers. For a new generation of young scientists and engineers entering the wastewater treatment profession, the quantity, complexity and diversity of these new developments can be overwhelming, particularly in developing countries where access is not readily available to advanced level tertiary education courses in wastewater treatment. **Biological Wastewater Treatment** addresses this deficiency. It assembles and integrates the postgraduate course material of a dozen or so professors from research groups around the world that have made significant contributions to the advances in wastewater treatment. The book forms part of an internet-based curriculum in biological wastewater treatment which also includes: Summarized lecture handouts of the topics covered in book Filmed lectures by the author professors Tutorial exercises for students self-learning Upon completion of this curriculum the modern approach of modelling and simulation to wastewater treatment plant design and operation, be it activated sludge, biological nitrogen and phosphorus removal, secondary settling tanks or biofilm systems, can be embraced with deeper insight, advanced knowledge and greater confidence.

Water Resource Management Issues Basic Principles and Applications CRC Press Drinking Water Safety: Basic Principles and Applications, examines the technical and scientific, as well as regulatory, ethical, and emerging issues of pollution prevention, sustainability, and optimization for the production and management of safe drinking water to cope with environmental pollution, population growth, increasing demand, terrorist threats, and climate change pressures. It presents a summary of conventional water and wastewater treatment technologies, in addition to the latest processes. Features include:

- Provides a summary of current and future of global water resources and availability.
- Summarizes key U.S. regulatory programs designed to ensure protection of water quality and safe drinking water supplies, with details on modern approaches for water utility resilience.
- Examines the latest water treatment technologies and processes, including separate chapters on evaporation, crystallization, nanotechnology, membrane-based processes, and innovative desalination approaches.
- Reviews the specialized literature on pollution prevention, sustainability, and the role of optimization in water treatment and related areas, as well as references for further reading.
- Provides illustrative examples and case studies that complement the text throughout, as well as an appendix with sections on units and conversion constants.

Associations' Publications in Print 1981- in 2 v.: v.1, Subject index; v.2, Title index, Publisher/title index, Association name index, Acronym index, Key to publishers' and distributors' abbreviations.

Manual for Collaborative Organizational Assessment in Human Settlements Organizations A Manual for Assessing the Effectiveness of Human Settlements Institutions UN-HABITAT

Groundwater Economics, Two-Volume Set CRC Press Groundwater is a vitally important resource and as its use increases, the available supply is depleted, creating a ripple effect of impacts on both the environment and the economy that need to be disseminated to a larger audience of students and practitioners. This second edition of *Groundwater Economics* accomplishes just that. This two-volume set is a comprehensive work focused on the economic values of groundwater resources and use, and it reinforces the need for a strong economic rationale in decision-making relating to that use. This new edition includes a new chapter on sustainability as well as updating all chapters with a focus on sustainability. It thoroughly explains the economic value of groundwater for sustainable use and needs, with practical examples, and includes thirteen new and updated case studies on the economics of groundwater data for decision-making. It also addresses both local and regional groundwater economic choices through a series of applications at an international level. This set, written by a sustainability professional with decades of experience in managing groundwater use and protection, is written for other professionals as well as students, who need to understand and evaluate water resources and manage their use from a variety of sustainable approaches.

Reverse Osmosis Systems Design, Optimization and Troubleshooting Guide Elsevier This book describes in depth knowledge of designing and operating reverse osmosis

(RO) systems for water desalination, and covers issues which will effect the probability for the long-standing success of the application. It also provides guidelines that will increase the performance of seawater RO desalination systems by avoiding errors in the design and operation and suggest corrective measures and troubleshooting of the problems encountered during RO operation. This book also provides guidelines for the best RO design and operational performance. In the introductory section, the book covers the history of RO along with the fundamentals, principles, transport models, and equations. Following sections cover the practical areas such as pretreatment processes, design parameters, design software programs (WAVE, IMSDesign, TORAYDS2, Lewaplust, ROAM Ver. 2.0, Winflows etc.), RO performance monitoring, normalization software programs (RODataXL and TorayTrak), troubleshooting as well as system engineering. Simplified methods to use the design software programs are also properly illustrated and the screenshots of the results, methods etc. are also given here along with a video tutorial. The final section of the book includes the frequently asked questions along with their answers. Moreover, various case studies carried out and recent developments related to RO system performance, membrane fouling, scaling, and degradation studies have been analyzed. The book also has several work out examples, which are detailed in a careful as well as simple manner that help the reader to understand and follow it properly. The information presented in some of the case studies are obtained from existing commercial RO desalination plants. These topics enable the book to become a perfect tool for engineers and plant operators/technicians, who are responsible for RO system design, operation, maintenance, and troubleshooting. With the right system design, proper operation, and maintenance program, the RO system can offer high purity water for several years. Provides guidelines for the optimum design and operational performance of reverse osmosis desalination plants. Presents step-by-step procedure to design reverse osmosis system with the latest design software programs along with a video tutorial Analyzes some of the issues faced during the design and operation of the reverse osmosis desalination systems, suggest corrective measures and its troubleshooting. Discusses reverse osmosis desalination pretreatment processes, design parameters, system performance monitoring, and normalization software programs Examines recent developments related to system performance, membrane fouling, and scaling studies Presents case studies related to commercial reverse osmosis desalination plants Perfect training guide for engineers and plant operators, who are responsible for reverse osmosis system design, operation and maintainance Water Engineering Hydraulics, Distribution and Treatment John Wiley & Sons Details the design and process of water supply systems, tracing the progression from source to sink Organized and logical flow, tracing the connections in the water-supply system from the water's source to its eventual use Emphasized coverage of water supply infrastructure and the design of water treatment processes Inclusion of fundamentals and practical examples

so as to connect theory with the realities of design Provision of useful reference for practicing engineers who require a more in-depth coverage, higher level students studying drinking water systems as well as students in preparation for the FE/PE examinations Inclusion of examples and homework questions in both SI and US units User's Manual for Premining Planning of Eastern Surface Coal Mining: Mine drainage management and monitoring Scientific and Technical Aerospace Reports Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database. Chemical Engineering Design Principles, Practice and Economics of Plant and Process Design Elsevier Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects

from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors The Sustainable Sites Handbook A Complete Guide to the Principles, Strategies, and Best Practices for Sustainable Landscapes John Wiley & Sons Get the definitive resource guide for sustainable site design, construction, and management. The Sustainable Sites Initiative (SITES) is transforming land design, development, and management practices across the United States with the first national rating system for sustainable landscapes. The Sustainable Sites Handbook features comprehensive and detailed information on principles, strategies, technologies, tools, and best practices for sustainable site design. Contributors to this book are some of the same experts that carefully shaped the SITES rating tool, ensuring thorough coverage of the broad range of topics related to sustainable site design. The Sustainable Sites Handbook offers in-depth coverage of design, construction, and management for systems of hydrology, vegetation, soils, materials, and human health and well-being. Focusing primarily on environmental site design and ecosystem services, this wide-ranging guide also covers issues of social equity, economic feasibility, and stewardship, which are crucial to the success of any sustainable site. Equally useful as a handbook for obtaining SITES credits or for the independent development of sustainable sites, The Sustainable Sites Handbook is an indispensable resource for practicing professionals in landscape architecture, landscape design, architecture, civil engineering, land planning, horticulture, ecology, environmental engineering, landscape contracting, and parks and recreation management. Agro-Environmental Sustainability in MENA Regions Springer Nature This book focuses on the status quo and the latest information on the water-soil-agriculture nexus in the MENA countries. It presents several case studies and applications from e.g. Morocco, Algeria, Tunisia, Egypt and Jordan, while also sharing and discussing the latest findings. The content includes a range of agriculture-related topics that focus on: water resources management, impacts of climate change, and wastewater treatment for reuse in agriculture sectors; in addition, sustainable approaches to agricultural-based industry, organic crop production, crop water requirements, and soil environment are discussed in an updated and comprehensive review. In turn, the book discusses the applications of GIS and remote sensing as a new technology for better agriculture management, as well as its use in Egypt as a representative country. In closing, it considers the implementation of an environmental information system in data-scarce MENA countries from the standpoint of the water-food nexus, and addresses the question of climate justice in the MENA region. Exploring various dimensions of MENA country-based case studies on achieving sustainable agriculture, the book offers an invaluable source of topical information for agricultural sustainability-related

stakeholders in the region, researchers and graduate students alike. The Green Book Appraisal and Evaluation in Central Government : Treasury Guidance Stationery Office This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users. Monthly Catalogue, United States Public Documents Energy Research Abstracts Guidelines and Computer Programs for the Planning and Design of Land Drainage Systems Food & Agriculture Org. The aim of this paper is to facilitate the planning and design of land drainage systems for sound land and water management for engineers and other professionals. It considers the integration of technical, socio-economic and environmental factors and the need for system users' participation in the planning, design, operation and maintenance processes. The text provides guidelines for the appropriate identification of drainage problems, for the planning and design of field drainage systems (surface and subsurface) and the main drainage and disposal systems. The annexes provide more detailed information with technical background, appropriate equations, some cross-references for finding appropriate methodologies, and computer programs for calculation of extreme values, of permeability and some land drainage system parameters. -- Publisher's description. Instrumentation & Control Systems I&CS. Multifunctional Wetlands Pollution Abatement and Other Ecological Services from Natural and Constructed Wetlands Springer This book describes how natural or constructed wetlands can be used to reduce pollution of freshwater and coastal ecosystems, while still preserving their biodiversity and ecological functions. Through a series of case histories described in 10 chapters in the monograph, the readers will gain an understanding of the opportunities, as well as the challenges associated with reducing point and non-point source pollution using natural, restored or constructed wetlands. The target audience will be water practitioners involved in projects utilizing integrated watershed management approaches to pollution abatement, as well as researchers who are designing projects focused on this topic. EPA Publications Bibliography Quarterly Abstract Bulletin Onsite Wastewater Treatment Systems Manual "This manual contains overview information on treatment technologies, installation practices, and past performance."--Intro. Indexes Cost-Benefit Analysis of Groundwater Policy and Projects, with Case Studies Groundwater Economics, Volume 2 CRC Press The competition for groundwater sources as a water supply reinforces the need for a strong economic rationale in decision-making. Evaluating economic decisions in the context of total water management and life-cycle water use is essential to making critical development and remediation choices. This revised volume provides fundamental economic and policy concepts related to

groundwater, discusses important factors in life-cycle cost-benefit evaluation and explains triple-bottom-line analysis for different groundwater projects. It includes new and updated case studies on groundwater issues with solutions for a range of situations based on economic data. **FEATURES OF THIS VOLUME** Provides an understanding for the fundamental economic approaches to groundwater policy and project evaluation Incorporates life-cycle cost-benefit approaches in a triple-bottom-line framework Includes new case studies on the economics of health protection, managed aquifer recharge, local versus regional supply and strategic life-cycle analysis Addresses local and regional groundwater economic choices through a series of practical applications Explores transboundary, international, climate change and macroeconomic factors influencing groundwater project and program decisions **Cost-Benefit Analysis of Groundwater Policy and Projects, with Case Studies, Second Edition**, the second volume of the two-volume set **Groundwater Economics**, is a must-have for any professional or student who needs to understand and evaluate water resources and manage their use from a variety of sustainable approaches. **Fossil Energy Update**