

Kahramaa Water Network Design Guidelines

Trenchless Technology
Renewable Energy in the GCC Countries
Handbook of Climate Change Resilience
Water Security in the Middle East
The Chlorine Dioxide Handbook
The Consciousness of Christ
Sustainable eco-technologies for water and wastewater treatment
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Land and Hydropolitics in the Nile River Basin
Integrated Energy Systems for Multigeneration
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Water Distribution System Handbook
Understanding and Managing Organisational Culture
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Trenchless Technology

One of the major challenges in the world is to provide clean water and sanitation for all. With 3% fresh water reserves in the earth, there are more than 1 billion people who still lack access to clean drinking water. The declining water quality has not only reduced the life expectancy of humans, but it has also contributed to the deleterious negative impacts on aquatic/marine life, flora, fauna and the ecosystem. However, with rapid technological advancements and the availability of advanced scientific instruments, there has been substantial improvement in the design and operation of water and wastewater treatment systems. Recently, these sustainable eco-technologies have been designed and operated to offer the following advantages: (i) a smaller footprint, (ii) less maintenance, (iii) >99% removal of contaminants, (iv) provides the option for resource recovery, (v) less energy consumption, (vi) minimal use of chemicals, and (vii) less investment and operational costs. This book highlights the technologies used for the removal of pollutants such as dyes, uranium, cyanotoxins, faecal contamination and P/N compounds from water environments, and shows that ecotechnologies are becoming more and more important and playing critical role in removing a wide variety of organic and inorganic pollutants from water. In Focus – a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector.

Renewable Energy in the GCC Countries

Building resilience—the ability to bounce back more quickly and effectively—is an urgent social and economic issue. Our interconnected world is susceptible to sudden and dramatic shocks and stresses: a cyber-attack, a new strain of virus, a structural failure, a violent storm, a civil disturbance, an economic blow. Through an astonishing range of stories, Judith Rodin shows how people, organizations, businesses, communities, and cities have developed resilience in the face of otherwise catastrophic challenges:

- Medellin, Colombia, was once the drug and murder capital of South America. Now it's host to international conferences and an emerging vacation destination.
- Tulsa, Oklahoma, cracked the code of rapid urban development in a floodplain.
- Airbnb, Toyota, Ikea, Coca-Cola, and other companies have realized the value of reducing vulnerabilities and potential threats to customers, employees, and their bottom line.
- In the Mau Forest of Kenya, bottom-up solutions are critical for dealing with climate change, environmental degradation, and displacement of locals.
- Following Superstorm Sandy, the Rockaway Surf Club in New York played a vital role in distributing emergency supplies.

As we grow more adept at managing disruption and more skilled at resilience-building, Rodin reveals how we are able to create and take advantage of new economic and social opportunities that offer us the capacity to recover after catastrophes and grow strong in times of relative calm.

Handbook of Climate Change Resilience

Water Security in the Middle East

Water Security in the Middle East argues that, while conflicts over transboundary water systems in the Middle East do occur, they tend not to be violent nor are they the primary cause of a war in this region. The contributors in this collection of essays place water disputes in larger political, historical and scientific contexts and discuss how the humanities and social sciences contribute towards this understanding. The authors contend that international sharing of scientific and technological advances can significantly increase access to water and improve water quality. While scientific advances can and should increase adaptability to changing environmental conditions, especially climate change, national institutional reform and the strengthening of joint commissions are vital. The contributors indicate ways in which cooperation can move from simple coordination to sophisticated, adaptive and equitable modes of water management.

The Chlorine Dioxide Handbook

The Consciousness of Christ

Sewers, Sewerage, Drainage, Sewage engineering, Drainpipes, External, Water supply and waste systems (buildings), Waste disposal engineering, Waste-water drainage, Surface-water drainage, Legislation, Sanitary engineering, Design, Structural design, Planning, Installation, Maintenance

Sustainable eco-technologies for water and wastewater treatment

Describes the first phase (2001-2004) of Qatar's bold K-12 education reform initiative, Education for a New Era, based on RAND's experiences as part of this ambitious, multi-participant effort. RAND examined the existing Qatari education system, recommended options for building a world-class system, and supported implementation of the chosen option, which is based on internationally benchmarked curriculum standards and parental choice of schools.

The Resilience Dividend

Water meters are the cornerstone of commercial systems for water utilities throughout the world; revenue is directly derived from the, figures provided by meters. Despite this, little attention has been paid, in terms of selection, replacement period and return on investment, to the management and optimization of water meters. Integrated Water Meter Management is a comprehensive reference for engineers and managers alike, providing: in-depth technical information allowing the true nature and behaviour of meters to be understood; a comprehensive review and comparison of relevant global water meter technologies - a useful tool to help decide which water meter is best for your utility; discussion of key decisions concerning the use of water meters (when to replace them, which one to use, how to control their quality) from a managerial perspective. Integrated Water Meter Management is an invaluable resource for those involved in urban water management, including water utility managers, engineering technical staff, operations and maintenance specialists, meter-reading personnel and scientific researchers in this discipline.

The Projects and Construction Review

The book presents methodological and applied aspects of sustainability and sustainable management from different countries and regions around the globe. It discusses approaches to sustainability assessment, demonstrates how ideas of sustainability and sustainable management are incorporated into public policies and private actions at local and national levels. Authors focus on promoting greater sustainability in natural resource management, energy production and storage, housing design, industrial reorganization, coastal planning, land use, and business strategy, including sustainability

indicators, environmental damages, and theoretical frameworks. Chapters reflect environmental, economic and social issues in sustainable development, challenges encountered, and lessons learned as well as solutions proposed.

Land and Hydropolitics in the Nile River Basin

The water sector, in many cases, is managed by fragmented government institutions, with inadequate capacities, low coordination, and overlapping responsibilities leading to the inefficient provision of potable water and sanitation services. Furthermore, in many countries, lack of government funding and low cost recovery constrains the financial sustainability of the water sector. The water security of the region requires an integrated and comprehensive approach of "effective water governance", and is necessary to ensure sustainable development in the Arab region. Identifying and adopting the principles and practices of effective water governance can guide the evolving socioeconomic needs of the people in an equitable and environmentally sound manner. Going beyond the traditional debates on availability, uses and dependency of water resources, this Report places the issue in a socioeconomic and environmental context and lays out the building blocks of good water management.

Integrated Energy Systems for Multigeneration

This book provides comprehensive information about the water resources of the Arabian Gulf region, an area that is symbolic as an arid to extremely arid belt. Filling an information gap it provides in-depth analyses of both natural and human-related constraints on water resources, and presents a new vision on efficient management of available water resources. It contains an overview of the physical geography and climatic constraints on water resources, systematic inventory of available traditional and non-traditional water resources, water-related problems, water conservation and legislations, comprehensive water laws applicable to the region, and modern techniques of water resources investigation. This work meets the needs of scientists, environmentalists, engineers, planners and decision makers. Senior undergraduate, graduate students and researchers of the Gulf area, and more generally of arid regions, will also find this volume valuable.

The National Energy Plan

Water Distribution System Handbook

Do you think you have a "bad memory"? Impossible, says Kevin Trudeau, the world's foremost authority on memory

improvement training. There are no bad memories, only untrained memories. In order to release our natural memory, Trudeau says, we just need to learn to retrieve what we already know. As founder of the American Memory Institute, Kevin Trudeau has already helped more than one million people do just that. Each Mega Memory lesson in this book takes no more than thirty minutes per day and uses pictures, rather than the laborious word-association techniques of other memory systems, to activate our inborn memory. With this easy-to-follow system, you'll be able to instantly remember names, phone numbers, addresses, financial data, speeches, and schoolwork. Even better, Trudeau's system ensures instant recall and long-term Mega Memory. All you need is the desire to unleash your Mega Memory, and you can reap all these incredible rewards! Labeled with a learning disability at an early age, Kevin Trudeau was convinced his problem was an inability to recall information. He read everything he could on memory improvement. Eventually, he developed his own program for memory retrieval and formed the American Memory Institute. His Mega Memory home study system is the most utilized self-improvement series of all time.

Understanding and Managing Organisational Culture

The waste of oil and gas in the Gulf erodes economic resilience and increases security risks. This is the first report to offer practical recommendations that address the key challenges of governance, political commitment, and market incentives from the perspectives of member countries of the Gulf Cooperation Council (Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, UAE).

International Fire Engineering Guidelines

Water has always been a source of risks and opportunities in the Middle East and North Africa. Yet rapidly changing socioeconomic, political, and environmental conditions make water security a different, and more urgent, challenge than ever before. This report shows that achieving water security means much more than coping with water scarcity. It means managing water resources in a sustainable, efficient, and equitable way. It also involves delivering water services reliably and affordably, to reinforce relationships between service providers and water users and contribute to a renewed social contract. Water security also entails mitigating water-related risks such as floods and droughts. Water security is an urgent target, but it is also a target within reach. A host of potential solutions to the region's water management challenges exist. To make these solutions work, clear incentives are needed to change the way water is managed, conserved, and allocated. To make these solutions work, countries in the region will also need to better engage water users, civil society, and youth. The failure of policies to address water challenges can have severe impacts on people's well-being and political stability. The strategic question for the region is whether countries will act with foresight and resolve to strengthen water security, or whether they will wait to react to the inevitable disruptions of water crises.

Power Distribution Engineering

Relations between the European Union (EU) and the Gulf Cooperation Council (GCC) are at a crossroads. After the derailment of the negotiations for the Free Trade Agreement (FTA) in 2008, the cooperation between the two regional blocs has remained low-key in a number of different areas, while the unprecedented changes that have taken place in North Africa and the Middle East, the common neighbourhood of the EU and the GCC, have not led to a renewed, structured cooperation on foreign and security policy issues. This volume addresses the shortcomings and potential of EU-GCC relations by taking stock of their past evolution and by advancing policy recommendations as to how to revamp this strategic cooperation. In this light, it highlights the areas where greater room for manoeuvre exists in order to enhance EU-GCC relations, discusses the instruments available and sheds light on the features of the regional and international context that are likely to significantly influence the new phase in the mutual relation between the two blocs. The book is the result of the research conducted in the framework of the project 'Sharaka - Enhancing Understanding and Cooperation in EU-GCC Relations' co-funded by the European Commission.

Ductile-Iron Pipe and Fittings

An ideal reference for design engineers and operators in water treatment, this manual of water supply practices describes ductile-iron pipe manufacturing, design, hydraulics, pipe wall thickness, corrosion control, installation, supports, fittings and appurtenances, joining, and installation.

Kevin Trudeau's Mega Memory

Just a Spoon Full of Laughter is a great read for anyone that's been to a doctor's office and made it out alive. Written by an actual physician, it will keep you in stitches (no pun intended) from one story to the next. See for yourself what could be so funny about the physician office visit. Whether it's recalling his first sigmoidoscopy or performing an autopsy, you'll keep this riveting series of short humorous stories right there in the bathroom for pleasurable reading. You may even find yourself somewhere between the pages. From an author who will never be a New York Times Best Seller, it's a great book for young or old, male or female, professional or not. It's especially ideal for that person in your life who has everything except a sense of humor. It's ideal as a stocking stuffer, white elephant gift or for future yard sales. "The funniest book I ever read." Says Dr. Zhivago "Yes! Yes! Yes!" Says Dr. No

Beyond Scarcity

The Nile River Basin supports the livelihoods of millions of people in Egypt, Ethiopia, Sudan and Uganda, principally as water for agriculture and hydropower. The resource is the focus of much contested development, not only between upstream and downstream neighbours, but also from countries outside the region. This book investigates the water, land and energy nexus in the Nile Basin. It explains how the current surge in land and energy investments, both by foreign actors as well as domestic investors, affects already strained transboundary relations in the region and how investments are intertwined within wider contexts of Nile Basin history, politics and economy. Overall, the book presents a range of perspectives, drawing on political science, international relations theory, sociology, history and political ecology.

Water Governance in the Arab Region

Due to an ever-decreasing supply in raw materials and stringent constraints on conventional energy sources, demand for lightweight, efficient and low-cost structures has become crucially important in modern engineering design. This requires engineers to search for optimal and robust design options to address design problems that are commonly large in scale and highly nonlinear, making finding solutions challenging. In the past two decades, metaheuristic algorithms have shown promising power, efficiency and versatility in solving these difficult optimization problems. This book examines the latest developments of metaheuristics and their applications in structural engineering, construction engineering and earthquake engineering, offering practical case studies as examples to demonstrate real-world applications. Topics cover a range of areas within engineering, including big bang-big crunch approach, genetic algorithms, genetic programming, harmony search, swarm intelligence and some other metaheuristic methods. Case studies include structural identification, vibration analysis and control, topology optimization, transport infrastructure design, design of reinforced concrete, performance-based design of structures and smart pavement management. With its wide range of everyday problems and solutions, Metaheuristic Applications in Structures and Infrastructures can serve as a supplementary text for design courses and computation in engineering as well as a reference for researchers and engineers in metaheuristics, optimization in civil engineering and computational intelligence. Review of the latest development of metaheuristics in engineering. Detailed algorithm descriptions with focus on practical implementation. Uses practical case studies as examples and applications.

Metaheuristic Applications in Structures and Infrastructures

Drought characteristics and management in North Africa and the Near East

Climate resilience, or the capacity of socio-ecological systems to adapt and upkeep their functions when facing physical-chemical stress, is a key feature of ecosystems and communities. As the risks and impacts of climate change become more

intense and more visible, there is a need to foster a broader understanding of both the impacts of these disruptions to food, water, and energy supplies and to increase resilience at the national and local level. The Handbook of Climate Change Resilience comprises a diverse body of knowledge, united in the objective of building climate resilience in both the industrialised and the developing world. This unique publication will assist scientists, decision-makers and community members to take action to make countries, regions and cities more resilient.

Capital markets and portfolio investment

Nonlinear Stochastic Operator Equations deals with realistic solutions of the nonlinear stochastic equations arising from the modeling of frontier problems in many fields of science. This book also discusses a wide class of equations to provide modeling of problems concerning physics, engineering, operations research, systems analysis, biology, medicine. This text discusses operator equations and the decomposition method. This book also explains the limitations, restrictions and assumptions made in differential equations involving stochastic process coefficients (the stochastic operator case), which yield results very different from the needs of the actual physical problem. Real-world application of mathematics to actual physical problems, requires making a reasonable model that is both realistic and solvable. The decomposition approach or model is an approximation method to solve a wide range of problems. This book explains an inherent feature of real systems—known as nonlinear behavior—that occurs frequently in nuclear reactors, in physiological systems, or in cellular growth. This text also discusses stochastic operator equations with linear boundary conditions. This book is intended for students with a mathematics background, particularly senior undergraduate and graduate students of advanced mathematics, of the physical or engineering sciences.

Nonlinear Stochastic Operator Equations

The report assesses the occurrence and impacts of drought, the current policies underlying drought management as well as the mitigation measures and responses adopted in the Near East and North Africa region, with a focus on the Agriculture Sector. It is the third of a series of similar studies carried out in different regions and countries of the world, with the objective of shedding light on drought effects, sensitizing policy-makers for the much needed paradigm shift to pro-active drought management planning and providing guidance for the development of such policies. The studies are carried out by FAO, in collaboration with the Water for Food Institute, University of Nebraska-Lincoln, USA, as a direct contribution to FAO's Strategic Objective "increasing the resilience of livelihoods to disasters" and Strategic Objective "make agriculture, forestry and fisheries more productive and sustainable".

BURIED PIPE DESIGN 3/E

Bridging the Gulf: EU-GCC Relations at a Crossroads

The Cooperation Council for the Arab States of the Gulf (GCC) has been at the epicenter of global energy markets because of its substantial endowment of hydrocarbons. Yet countries in the region have also stated their intent to be global leaders in renewable energy. This collection explores the drivers for the widespread adoption of renewable energy around the GCC, the need for renewable energy and the policy-economic factors that can create success. All six countries within the GCC have plans to include renewable energy power generation in their energy mix for various reasons including: a growing demand for electricity because of increasing populations, an increasing government fiscal deficit due to inefficient subsidies, the need to diversify the economy and global pressure to meet climate change requirements. However, the decision of when and by how much to introduce renewable energy is fraught with complications. In this book, a stellar cast of regional policy and academic experts explore the reasons behind these renewable energy plans and the potential impediments to success, whether it be the declining cost of producing energy from hydrocarbons, an infrastructure which needs to be updated, social acceptance, lack of financing and even harsh weather. Weighing up all these factors, the book considers the route forward for renewable energy in the Gulf region. The Economics of Renewable Energy in the Gulf offers an excellent examination of the adoption of renewable energy in the area. It will be of great interest to academic researchers and policy makers alike, particularly those working in the areas of energy economics, public policy and international relations.

Education for a New Era

Unearth the Secrets of Designing and Building High-Quality Buried Piping Systems This brand-new edition of Buried Pipe Design helps you analyze the performance of a wide range of pipes, so you can determine the proper pipe and installation system for the job. Covering almost every type of rigid and flexible pipe, this unique reference identifies and describes factors involved in working with sewer and drain lines, water and gas mains, subway tunnels, culverts, oil and coals slurry lines, and telephone and electrical conduits. It provides clear examples for designing new municipal drinking and wastewater systems or rehabilitating existing ones that will last for many years on end. Comprehensive in scope and meticulously detailed in content, this is the pipe design book you'll want for a reference. This NEW edition includes: Important data on the newest pipe styles, including profile-wall polyethylene Updated references to ASTM, AWWA, and ASHTTO, standards Numerous examples of specific types of pipe system designs Safety precautions included in installation specifications Greater elaboration on trenchless technology methods New information on the cyclic life of PVC pressure pipe Buried Pipe Design covers the ins and outs of: External Loads Gravity Flow Pipe Design Pressure Pipe Design Rigid Pipe Products Flexible Steel Pipe Flexible Ductile Iron Pipe Flexible Plastic Pipe Pipe Installation Trenchless Technology

The Economics of Renewable Energy in the Gulf

For technicians, architects, and engineers, a revised guide to estimating customer demand and maximum expected flow for sizing new service lines and meters. The manual (first published in 1975) presents a field method of demand profiling that can be used to evaluate actual customer use patterns and

Saving Oil and Gas in the Gulf

This book focuses on the worldwide threats to mangrove forests and the management solutions currently being used to counteract those hazards. Designed for the professional or specialist in marine science, coastal zone management, biology, and related disciplines, this work will appeal to those not only working to protect mangrove forests, but also the surrounding coastal areas of all types. Examples are drawn from many different geographic areas, including North and South America, India, and Southeast Asia. Subject areas covered include both human-induced and natural impacts to mangroves, intended or otherwise, as well as the efforts being made by coastal researchers to promote restoration of these coastal fringing forests.

Sustainability Perspectives: Science, Policy and Practice

Water distribution systems are made up of pipe, valves and pumps through which treated water is moved from the treatment plant to homes, offices, industries, and other consumers. The types of materials and equipment used by each water system are usually governed by local conditions, past practices, and economics. Consequently, drinking water professionals must be knowledgeable about common types of equipment and operating methods that are available. Completely revised and updated, Water transmission and distribution includes information on the following: distribution system design and operation and maintenance ; piping materials ; valves, pumps, and water meters ; water main installation ; backfilling, main testing, and installation safety ; fire hydrants ; water storage ; water services ; cross-connection control ; motors and engines ; instrumentation and control ; information management and public relations.--Cover page [4].

Hydrogeology of an Arid Region: The Arabian Gulf and Adjoining Areas

Integrated Energy Systems for Multigeneration looks at how measures implemented to limit greenhouse gas emissions must consider smart utilization of available limited resources and employ renewable resources through integrated energy systems and the utilization of waste energy streams. This reference considers the main concepts of thermal and

conventional energy systems through detailed systems description, analyses of methodologies, performance assessment and optimization, and illustrative examples and case studies. The book examines producing power and heat with cooling, freshwater, green fuels and other useful commodities designed to tackle rising greenhouse gas emissions in the atmosphere. With worldwide energy demand increasing, and the consequences of meeting supply with current dependency on fossil fuels, investigating and developing sustainable alternatives to the conventional energy systems is a growing concern for global stakeholders. Analyzes the links between clean energy technologies and achieving sustainable development Illustrates several examples of design and analysis of integrated energy systems Discusses performance assessment and optimization Uses illustrative examples and global case studies to explain methodologies and concepts

Sizing Water Service Lines and Meters, 2nd Ed. (M22)

Water Transmission and Distribution

"A wide-ranging, significant contribution." - Göran Therborn, Cambridge University "A lively, well-informed, and accessible guide through the dynamics and complexities of globalization." - Robert Holton, Trinity College, Dublin "This is an excellent text on globalisation. It is theoretically sophisticated, critically engaging, and empirically comprehensive perfect for courses on globalisation within sociology programmes in particular." - Andrew Kirton, Liverpool University Do we confuse globalization for Americanization? What are the distinctive elements in the interplay of the local and the global? This book examines globalization from the perspective of both the West and the East. It considers globalization as a general social and economic process, and the challenges it presents for Western social science. The meaning of a global perspective is explored through various concrete examples: religion, migration, medicine, terrorism, global disasters, citizenship, multiculturalism, media and popular culture. Introduced with a foreword from Roland Robertson, the book is brimming with novel interpretations and fresh insights that will contribute to illuminating the practical realities of globalization.

Integrated Water Meter Management

Trenchless technology allows for the installation or renewal of underground utility systems with minimum disruption of the surface. As water and wastewater systems age or must be redesigned in order to comply with environmental regulations, the demand for this technology has dramatically increased. This is a detailed reference covering construction details, design guidelines, environmental concerns, and the latest advances in equipment, methods, and materials. * Design and analysis procedures * Design equations * Risk assessment * Soil compatibility and more

Threats to Mangrove Forests

The aim of this book is to help identify the potential role that renewable energy sources (RES) can play in the future energy mix of the GCC countries; it looks closely at the major past and present renewable energy initiatives and policies, as well as industrial and research capabilities in the region, with a specific focus on solar and wind energy technologies. In doing so, this study examines the drivers and requirements for the deployment of these energy sources and their possible integration into sectors as different as electricity generation, water desalination or green building. Illustrated by a wealth of practical cases and studies, and aspiring to be used as a reference book, this study aims to help researchers comprehend the overall capabilities and achievements of the GCC countries in the renewable energy field, so that perspectives on the region's strategic energy issues are objective and sustainable models are encouraged. Even when topics beyond their fields are discussed, researchers from many diverse fields will find the style to be accessible, while information remains detailed and 'technical'. The book's multidisciplinary approach gives voice to all stakeholders without judgment or partisanship, leaving the reader free to form his or her own opinion about the challenges that are at stake, and decide the course of action that is required by the current situation.

Just a Spoonful of Laughter Helps the Medicine Go Down

Drain and Sewer Systems Outside Buildings

Providing historical; present day; and future perspectives; this book explores every facet of the hydraulics of pressurized flow; piping design and pipeline systems; storage issues; reliability analysis and distribution; and more. --

Shedding Light on Electricity Utilities in the Middle East and North Africa

The electricity sector in the Middle East and North Africa (MENA) is in the grip of an apparent paradox. The region holds the world's largest oil and gas reserves and has been able to universalize access to electricity in most economies, but it may not be able to make the investments required to meet the future power needs of its fast-growing populations. The annual investments to keep pace with the demand for electricity have been estimated at about 3 percent of the region's projected GDP. In most of the region's economies, however, financial constraints limit the ability to make those investments. The power sector needs to find its own financing sources—and quickly. *Shedding Light on Electricity Utilities in the Middle East and North Africa* provides quantitative evidence on how better utility management; sustainable pricing; and selective, context-specific reforms would free enough resources to make the needed investments and lower the operating costs of the

sector. The solution involves cutting costs and raising revenues through well-targeted and well-identified improvements. These improvements would generate more financing than the sector's investment needs. The report provides detailed evidence of the size of the potential gain in each of the 14 MENA economies covered. The analysis is based on the MENA Electricity Database, a new dataset covering 67 electricity utilities, as well as a sample of utilities in comparable economies from other regions. The authors hope that their benchmarking efforts will provide a regional- and utility-level frame of reference for sector performance in the region. The book will be of interest to managers of electricity utilities, regulators, policy makers, and other stakeholders concerned with the performance of utilities in the region.

Advancing Renewable Energy in Resource-Rich Economies of the MENA

"Covering virtually all areas of distribution engineering, this complete reference work examines the unique behavior of utilities and provides the practical knowledge necessary to solve real-world distribution problems. "

Globalization East and West

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