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JOURNEY HUDSON

Pedagogy and Student Services for Institutional Transformation Routledge
This book provides a self-contained introduction to the simulation of flow and transport in porous media, written by a developer of numerical methods. The reader will learn how to implement reservoir simulation models and computational algorithms in a robust and efficient manner. The book contains a large number of numerical examples, all fully equipped with online code and data, allowing the reader to reproduce results, and use them as a starting point for their own work. All of the examples in the book are based on the MATLAB Reservoir Simulation Toolbox (MRST), an open-source toolbox popular popularity in both academic institutions and the petroleum industry. The book can also be seen as a user guide to the MRST software. It will prove invaluable for researchers, professionals and advanced students using reservoir simulation methods. This title is also available as Open Access on Cambridge Core.

Methods for Determination of Inorganic Substances in Water and Fluvial Sediments Springer

Along the undisturbed shores, especially of the Mediterranean Sea and the European North Atlantic Ocean, is a quite widespread plant called Beta maritima by botanists, or more commonly sea beet. Nothing, for the inexperienced observer's eye, distinguishes it from surrounding wild vegetation. Despite its inconspicuous and nearly invisible flowers, the plant has had and will have invaluable economic and scientific importance. Indeed, according to Linnè, it is considered "the progenitor of the beet crops possibly born from Beta maritima in some foreign country". Recent molecular research confirmed this lineage. Selection applied after domestication has created many cultivated types with different destinations. The wild plant always has been harvested and used both

for food and as a medicinal herb. Sea beet crosses easily with the cultivated types. This facilitates the transmission of genetic traits lost during domestication, which selection processes aimed only at features immediately useful to farmers and consumers may have depleted. Indeed, as with several crop wild relatives, Beta maritima has been successfully used to improve cultivated beet's genetic resistances against many diseases and pests. In fact, sugar beet cultivation currently would be impossible in many countries without the recovery of traits preserved in the wild germplasm. Dr. Enrico Biancardi graduated from Bologna University. From 1977 until 2009, he was involved in sugar beet breeding activity by the Istituto Sperimentale per le Colture Industriali (ISCI) formerly Stazione Sperimentale di Bieticoltura (Rovigo, Italy), where he released rhizomania and cercospora resistant germplasm and collected seeds of Mediterranean sea beet populations as a genetic resource for breeding and ex situ conservation. Retired since 2009, he still collaborates with several working breeders, in particular, at the USDA Agricultural Research Stations, at the Chinese Academy of Agricultural Science (CAAS), and at the Athens University (AUA). He has edited books, books chapters and authored more than 150 papers. Dr. Lee Panella is a plant breeder and geneticist with the USDA-ARS at Fort Collins, Colorado. He earned his B.S. in Crop and Soil Science from Michigan State University, an M.S. in Plant Breeding from Texas A&M University, and a Ph.D. in genetics from the University of California at Davis. His research focus is developing disease resistant germplasm using sugar beet wild relatives. He is chairman of the USDA-ARS Sugar Beet Crop Germplasm Committee and has collected and worked extensively with sea beet. Dr. Robert T. Lewellen was raised on a ranch in Eastern Oregon and obtained a B.S. in Crop Science from Oregon State University followed by a Ph.D. from Montana State University in Genetics. From 1966 to 2008 he was a research

geneticist for the USDA-ARS at Salinas, California, where he studied the genetics of sugar beet and as a plant breeder, often used sea beet as a genetic source to produce many pest and disease resistant sugar beet germplasm and parental lines, while authoring more than 100 publications.

Nature Based Solutions for Wastewater Treatment IWA Publishing
Elementary Linear Algebra develops and explains in careful detail the computational techniques and fundamental theoretical results central to a first course in linear algebra. This highly acclaimed text focuses on developing the abstract thinking essential for further mathematical study The authors give early, intensive attention to the skills necessary to make students comfortable with mathematical proofs. The text builds a gradual and smooth transition from computational results to general theory of abstract vector spaces. It also provides flexible coverage of practical applications, exploring a comprehensive range of topics. Ancillary list: * Maple Algorithmic testing- Maple TA- www.maplesoft.com Includes a wide variety of applications, technology tips and exercises, organized in chart format for easy reference More than 310 numbered examples in the text at least one for each new concept or application Exercise sets ordered by increasing difficulty, many with multiple parts for a total of more than 2135 questions Provides an early introduction to eigenvalues/eigenvectors A Student solutions manual, containing fully worked out solutions and instructors manual available

Recent Progress in Slow Sand and Alternative Biofiltration Processes Springer Nature

This open access book, written by world experts in aquaponics and related technologies, provides the authoritative and comprehensive overview of the key aquaculture and hydroponic and other integrated systems, socio-economic and environmental aspects. Aquaponic systems, which combine aquaculture and

vegetable food production offer alternative technology solutions for a world that is increasingly under stress through population growth, urbanisation, water shortages, land and soil degradation, environmental pollution, world hunger and climate change.

Fundamentals of Geophysical Data Processing Oxford University Press

The crisis in the auto industry has resulted in a race between Volkswagen, as challenger, and Toyota, as tattered global market leader. Whether it is the German or the Japanese firm that takes pole position, the winner will change the balance of power in the automotive industry and lead the way to the automobiles of the future.

Fundamentals and Applications of Phosphorus Nanomaterials Springer Science & Business Media

Building water-wise cities is a pressing need nowadays in both developed and developing countries. This is mainly due to the limitation of the available water resources and aging infrastructure to meet the needs of adapting to social and environmental changes and for urban liveability. This is the first book to provide comprehensive insights into theoretical, systematic, and engineering aspects of water-wise cities with a broad coverage of global issues. The book aims to (1) provide a theoretical framework of water-wise cities and associated sustainable water systems including key concepts and principles, (2) provide a brand-new thinking on the design and management of sustainable urban water systems of various scales towards a paradigm shift under the resource and environmental constraints, and (3) provide a technological perspective with successful case studies of technology selection, integration, and optimization on the "fit-for-purpose" basis.

Wärtsilä Encyclopedia of Ship Technology McGraw-Hill Companies

The compliance of this book is helpful for academicians, researchers, students, as well as other people seeking the relevant material in current trends of studies on the topic of environmental degradation.

The End of Development Springer

The 2018 FAO-OIE-WHO (Tripartite) zoonoses guide, "Taking A Multisectoral, One Health Approach: A Tripartite Guide to Addressing Zoonotic Diseases in Countries" (2018 TZG) is being jointly developed to provide member countries with practical guidance on OH approaches to build national mechanisms for multisectoral coordination, communication, and collaboration to address zoonotic disease threats at the animal-human-environment interface. The

2018 TZG updates and expands on the guidance in the one previous jointly-developed, zoonoses-specific guidance document: the 2008 Tripartite "Zoonotic Diseases: A Guide to Establishing Collaboration between Animal and Human Health Sectors at the Country Level", developed in WHO South-East Asia Region and Western Pacific Region. The 2018 TZG supports building by countries of the resilience and capacity to address emerging and endemic zoonotic diseases such as avian influenza, rabies, Ebola, and Rift Valley fever, as well as food-borne diseases and antimicrobial resistance, and to minimize their impacts on health, livelihoods, and economies. It additionally supports country efforts to implement WHO International Health Regulations (2005) and OIE international standards, to address gaps identified through external and internal health system evaluations, and to achieve targets of the Sustainable Development Goals. The 2018 TZG provides relevant country ministries and agencies with lessons learned and good practices identified from country-level experiences in taking OH approaches for preparedness, prevention, detection and response to zoonotic disease threats, and provides guidance on multisectoral communication, coordination, and collaboration. It informs on regional and country-level OH activities and relevant unisectoral and multisectoral tools available for countries to use.

Environmental Degradation: Causes and Remediation Strategies Springer Science & Business Media

"This global synthesis report serves as a call to action to decision makers. It provides a science-based synthesis of the different types of goods and services provided by mangroves and the associated risks in losing these services in the face of ongoing global habitat loss and degradation. The report provides management and policy options at the local, regional and global level with the aim of preventing further losses through effective conservation measures, sustainable management and successful restoration. In addition to the report, key figures and maps are available to download as individual files."--Publisher's description.

Putting Purpose Into Practice Academic Press

Backpacker brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors

personally test the hiking trails, camping gear, and survival tips they publish. Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

Motoring the Future Springer

Germany's economic miracle is a widely-known phenomenon, and the world-leading, innovative products and services associated with German companies are something that others seek to imitate. In *The 'Made in Germany' Champion Brands*, Ugesh A. Joseph provides an extensively researched, insightful look at over 200 of Germany's best brands to see what they stand for, what has made them what they are today, and what might be transferable. The way Germany is branded as a nation carries across into the branding of its companies and services, particularly the global superstar brands - truly world-class in size, performance and reputation. Just as important are the medium-sized and small enterprises, known as the 'Mittelstand'. These innovative and successful enterprises from a wide range of industries and product / service categories are amongst the World market leaders in their own niche and play a huge part in making Germany what it is today. The book also focuses on German industrial entrepreneurship and a selection of innovative and emergent stars. All these companies are supported and encouraged by a sophisticated infrastructure of facilitators, influencers and enhancers - the research, industry, trade and standards organizations, the fairs and exhibitions and all the social and cultural factors that influence, enhance and add positive value to the country's image. Professionals or academics interested in business; entrepreneurship; branding and marketing; product or service development; international trade and business development policy, will find fascinating insights in this book; while those with an interest in Germany from emerging industrial economies will learn something of the secrets of German success.

100% Clean, Renewable Energy and Storage for Everything UNESCO Publishing

PASS IT seeks to address a compelling need in higher education by developing a corps of trainers to facilitate professional development workshops in the implementation of Universal Design (UD) and Universal Instructional Design (UID) in higher education. UID, an adaptation of the architectural concept of Universal Design, is a relatively new model for providing access to higher education for

students with disabilities. Through UD and UID, staff and faculty create more welcoming spaces for all students by rethinking professional practices to develop curricula and programs that are inclusive for all learners. This book is organized into six sections, each dealing with a different aspect of the implementation of UD and UID in higher education. The first section (Theoretical Frameworks) presents theoretical frameworks that explores the historical roots of attitudes toward disability and provides the theoretical foundations for UID and then illustrates intersections between UID and student development theory. The second, pedagogical section (Implementing Universal Instructional Design in the Classroom), of the book examines the inclusiveness of first-year courses through Universal Instructional Design and discusses the value of going beyond the usual syllabus statement to communicate to students about the importance of providing equal access to classrooms and the impact that such communication can have on teaching and on all students' learning. Examples are given to demonstrate the relevance of UID principles to courses in art, legal studies, student writing, social sciences, and mathematics. The use of a computer-assisted model known as the Personalized System of Instruction (PSI) to teach a universally-designed psychology course is also explored in this section. The section closes with an examination of the role that learning communities play in implementing UD and UID. The third section (Implementing Universal Design in Academic Support and Student Development Programs and Services) explores the implementation of UD and UID in academic support and student development programs and services. The fourth section (Professional Preparation) addresses the application of UD and UID to professional preparation programs in higher education. The fifth section (Student Perspectives) is dedicated to student perspectives on the use of Universal Instructional Design. This section presents a discussion of the complicated process of disclosure for students with documented disabilities, as well as the results of the Multicultural Awareness Project for Institutional Transformation (MAP IT) that are specific to students with disabilities. A case study is described that demonstrates how developing accommodations for a student with multiple disabilities benefit the entire class. Finally, the sixth section (Administrative and Practical Considerations in Implementing Universal

Instructional Design in Higher Education) addresses administrative and practical considerations in implementing UD in higher education. The book concludes with an expanded set of guidelines for extending UID as a model for multicultural postsecondary education. The book contains 38 articles, as follows: (1) Introduction (Emily Goff and Jeanne L. Higbee); (2) Theoretical Foundations of Universal Instructional Design (Nancy J. Evans); (3) Broadening the Pathway to Academic Success: The Critical Intersections of Social Justice Education, Critical Multicultural Education and Universal Instructional Design (Heather W. Hackman); (4) Linking Universal Instructional Design and Cultural Capital: Improving African American College Outcomes (Na'im Madyun); (5) Enhancing the Inclusiveness of First-Year Courses Through Universal Instructional Design (Jeanne L. Higbee, Carl J. Chung, and Leonardo Hsu); (6) Making a Statement (Mark Pedelty); (7) Practicing Universal Instructional Design in Visual Art Courses (Patricia James and Themina Kader); (8) Universal Instructional Design in a Legal Studies Classroom (Karen L. Miksch); (9) Teaching College History Using Universal Instructional Design (David Arendale and David Ghere); (10) Writing Assignments and Universal Design for Instruction: Making the Phantom Visible (Renee Delong); (11) Successful Undergraduate Mathematics Through Universal Design of Essential Course Components, Pedagogy, and Assessment (Irene M. Duranczyk and Annia K. Fayon); (12) Computer-Mediated Learning in Mathematics and Universal Instructional Design (D. Patrick Kinney and Laura Smith Kinney); (13) Universal Instructional Design in a Computer-Based Psychology Course (Thomas Brothen and Cathrine Wambach); (14) Charting a New Course: Learning Communities and Universal Design (Rashne R. Jehangir); (15) Universal Design Principles for Student Development Programs and Services (Jeanne L. Higbee); (16) Universal Learning Support Design: Maximizing Learning Beyond the Classroom (Donald L. Opitz and Lydia S. Block); (17) Implementing Universal Design in Learning Centers (Jeanne L. Higbee and Shevawn B. Eaton); (18) Universal Design in Counseling Center Service Areas (Kathleen B. Uzes and Daley O. Connelly); (19) Universal Design in Advising (Principles and Practices, Mary Ellen Shaw, Amy Kampsen, Carole Anne Broad, and Anthony Albecker); (20) The First-Year Experience (Jeanne L. Higbee and Karen S. Kalivoda); (21) Residential Living for All: Fully Accessible and "Liveable" On-

Campus Housing (Martha E. Wisbey and Karen S. Kalivoda); (22) Disability Services as a Resource: Advancing Universal Design (Karen S. Kalivoda and Margaret C. Totty); (23) Ensuring Smooth Transitions: A Collaborative Endeavor for Career Services (Jeanne L. Higbee, Emily Goff, Karen S. Kalivoda, Margaret C. Totty, Janice Davis Barham, and Christopher D. Bell); (24) Infusing Universal Instructional Design Into Student Personnel Graduate Programs (Karen A. Myers); (25) The Application of Universal Instructional Design in Experiential Education (Nancy Sharby and Susan E. Roush); (26) An Administrative Approach to Universal Design in Allied Health Sciences (Deborah A. Casey); (27) Training Professional and Faculty Advisors in Universal Design Principles (Debbie Cunningham, Alfred Souma, and Kaycee Gilmore Holman); (28) Universal Instructional Design and Professional Development of Public School Teachers (Karen A. Myers, Jo Nell Wood, and Mark Poussan); (29) Student Evaluations of the Effectiveness of Implementing Universal Instructional Design (Jeanne L. Higbee, Pa Houa Lee, James R. Bardill, and Heidi Cardinal); (30) Why Not Disclose? (Julie R. Alexandrin, Ilana Lyn Schreiber, and Elizabeth Henry); (31) Empowering Students With Severe Disabilities: A Case Study (Jay T. Hatch, David L. Ghere, and Katrina N. Jirik); (32) Disability and Diversity: Results From the Multicultural Awareness Project for Institutional Transformation (Jeanne L. Higbee, Patrick L. Bruch, and Kwabena Siaka); (33) Using Universal Design for Administrative Leadership, Planning, and Evaluation (David Arendale and Robert Poch); (34) Computing Technologies, the Digital Divide, and "Universal" Instructional Methods (Jillian M. Duquaine-Watson); (35) Transforming the Community College by Eliminating Division Between Educational and Student Services (Melanie K. Wagner); (36) Community Colleges and Universal Instructional Design (Judy Schuck and Jane Larson); (37) Assistive Technology (Margret C. Totty and Karen S. Kalivoda); and (38) Institutional Transformation: Some Concluding Thoughts (Jeanne L. Higbee). [Individual articles contain references and tables.]. [Modeling, Simulation and Optimization of Wind Farms and Hybrid Systems Agro Environ Media](#), Publication Cell of AESA, Agriculture and Environmental Science Academy, This open access book highlights the interdisciplinary aspects of logistics research. Featuring empirical, methodological, and practice-oriented articles, it addresses the modelling,

planning, optimization and control of processes. Chiefly focusing on supply chains, logistics networks, production systems, and systems and facilities for material flows, the respective contributions combine research on classical supply chain management, digitalized business processes, production engineering, electrical engineering, computer science and mathematical optimization. To celebrate 25 years of interdisciplinary and collaborative research conducted at the Bremen Research Cluster for Dynamics in Logistics (LogDynamics), in this book hand-picked experts currently or formerly affiliated with the Cluster provide retrospectives, present cutting-edge research, and outline future research directions.

Million Dollar Directory Cambridge University Press

Advanced Oxidation Processes (AOPs) rely on the efficient generation of reactive radical species and are increasingly attractive options for water remediation from a wide variety of organic micropollutants of human health and/or environmental concern. Advanced Oxidation Processes for Water Treatment covers the key advanced oxidation processes developed for chemical contaminant destruction in polluted water sources, some of which have been implemented successfully at water treatment plants around the world. The book is structured in two sections; the first part is dedicated to the most relevant AOPs, whereas the topics covered in the second section include the photochemistry of chemical contaminants in the aquatic environment, advanced water treatment for water reuse, implementation of advanced treatment processes for drinking water production at a state-of-the-art water treatment plant in Europe, advanced treatment of municipal and industrial wastewater, and green technologies for water remediation. The advanced oxidation processes discussed in the book cover the following aspects: - Process principles including the most recent scientific findings and interpretation. - Classes of compounds suitable to AOP treatment and examples of reaction mechanisms. - Chemical and photochemical degradation kinetics and modelling. - Water quality impact on process performance and practical considerations on process parameter selection criteria. - Process limitations and byproduct formation and strategies to mitigate any potential adverse effects on the treated water quality. - AOP equipment design and economics considerations. - Research studies and outcomes. - Case

studies relevant to process implementation to water treatment. - Commercial applications. - Future research needs. Advanced Oxidation Processes for Water Treatment presents the most recent scientific and technological achievements in process understanding and implementation, and addresses to anyone interested in water remediation, including water industry professionals, consulting engineers, regulators, academics, students. Editor: Mihaela I. Stefan - Trojan Technologies - Canada

The Port of Charleston, S.C. Routledge

Why did some countries grow rich while others remained poor? Human history unfolded differently across the globe. The world is separated in to places of poverty and prosperity. Tracing the long arc of human history from hunter gatherer societies to the early twenty first century in an argument grounded in a deep understanding of geography, Andrew Brooks rejects popular explanations for the divergence of nations. This accessible and illuminating volume shows how the wealth of 'the West' and poverty of 'the rest' stem not from environmental factors or some unique European cultural, social or technological qualities, but from the expansion of colonialism and the rise of America. Brooks puts the case that international inequality was moulded by capitalist development over the last 500 years. After the Second World War, international aid projects failed to close the gap between 'developed' and 'developing' nations and millions remain impoverished. Rather than address the root causes of inequality, overseas development assistance exacerbate the problems of an uneven world by imposing crippling debts and destructive neoliberal policies on poor countries. But this flawed form of development is now coming to an end, as the emerging economies of Asia and Africa begin to assert themselves on the world stage. The End of Development provides a compelling account of how human history unfolded differently in varied regions of the world. Brooks argues that we must now seize the opportunity afforded by today's changing economic geography to transform attitudes towards inequality and to develop radical new approaches to addressing global poverty, as the alternative is to accept that impoverishment is somehow part of the natural order of things.

Advanced Oxidation Processes for Water Treatment Walter de Gruyter GmbH & Co KG

It all began with Markus Jochum approaching one of us (HvS) - "when you guys are doing interviews with senior

scientists from oceanography and related sciences, why are you not doing Walter Munk?" Indeed, why not? Walter Munk, an icon in oceanography, had just given a wonderful talk in a symposium in honor of his 90th birthday, sweeping a grand circle from his earliest work with Chip Cox on airborne measurements of ocean surface roughness to the latest satellite data - not simply a review, but the struggle of an active scientist opening up new perspectives - as inspiring and stimulating as when one of us (KH) first met him at the Ocean Waves Conference in Easton in 1961 (Fig. 1. 1). Walter immediately agreed to share with us his recollections on the nearly seventy years of his path-breaking contributions in a sheer amazing range of topics, from ocean waves, internal waves, ocean currents, tides, tsunamis, sea level, microseisms and the rotation of the earth to ocean acoustic tomography. With "you guys" Markus was referring to HvS and the various partners HvS had invited to join him in conducting a series of interviews of retired colleagues.

Goods and Services of Marine Bivalves Springer

Published each year since 1959, The Military Balance is an indispensable reference to the capabilities of armed forces across the globe. It is used by academia, the media, armed forces, the private sector and government. It is an open-source assessment of the military forces and equipment inventories of 171 countries, with accompanying defence economics and procurement data. Alongside detailed country data, The Military Balance assesses important defence issues, by region, as well as key global trends, such as in defence technology and equipment modernisation. This analysis is accompanied by full-colour graphics, including maps and illustrations. With extensive explanatory notes and reference information, The Military Balance is as straightforward to use as it is extensive. The 2022 edition is accompanied by a full-colour wall chart illustrating security dynamics in the Arctic. *The Importance of Mangroves to People* Zed Books Ltd.

Environmental Aspects of Zoonotic Diseases provides a definitive description, commentary and research needs of environmental aspects related to zoonotic diseases. There are many interrelated connections between the environment and zoonotic diseases such as: water, soil, air and agriculture. The book presents investigations of these connections, with specific reference to environmental processes such as: deforestation, floods, draughts, irrigation practices, soil transfer

and their impact on bacterial, viral, fungal, and parasitological spread. Environmental aspects such as climate (tropical, sub-tropical, temperate, arid and semi-arid), developed and undeveloped countries, animal (domestic and wild) traffic animal border crossing, commercial animal trade, transportation, as well geography and weather on zoonosis, are also discussed and relevant scientific data is condensed and organized in order to give a better picture of interrelationship between the environment and current spread of zoonotic diseases. Altogether, the book presents a remarkable and a vast amount of potential future research directions based on the link: environment-vectors-pathogens-humans. The most up-to-date source of information on this increasingly important cross-disciplinary subject, *Environmental Aspects of Zoonotic Diseases* will be invaluable for environmentalists, veterinarians, medical staff, environmental engineers, government agencies and consultants working in this field. Authors: Prof. Robert Armon, Technion (Israel Institute of Technology), Haifa, Israel, Dr. Uta Cheruti, Technion (Israel Institute of Technology), Haifa, Israel

[Water-Wise Cities and Sustainable Water Systems](#) IWA Publishing

The aim of this open access book is to review and analyse the goods and services of bivalve shellfish. How they are defined, what determines the ecological functions

that are the basis for the goods and services, what controversies in the use of goods and services exist, and what is needed for sustainable exploitation of bivalves from the perspective of the various stakeholders. The book is focused on the goods and services, and not on impacts of shellfish aquaculture on the benthic environment, or on threats like biotoxins; neither is it a shellfish culture handbook although it can be used in evaluating shellfish culture. The reviews and analysis are based on case studies that exemplify the concept, and show the strengths and weaknesses of the current applications. The multi-authored reviews cover ecological, economic and social aspects of bivalve goods and services. The book provides new insights for scientists, students, shellfish producers, policy advisors, nature conservationists and decision makers. This book is open access under the CC BY license. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

[Photovoltaic/Thermal \(PV/T\) Systems](#) IWA Publishing

Slow sand filtration is typically cited as being the first "engineered" process in drinking-water treatment. Proven modifications to the conventional slow sand filtration process, the awareness of induced biological activity in riverbank filtration systems, and the growth of

oxidant-induced biological removals in more rapid-rate filters (e.g. biological activated carbon) demonstrate the renaissance of biofiltration as a treatment process that remains viable for both small, rural communities and major cities. Biofiltration is expected to become even more common in the future as efforts intensify to decrease the presence of disease-causing microorganisms and disinfection by-products in drinking water, to minimize microbial regrowth potential in distribution systems, and where operator skill levels are emphasized. Recent *Progress in Slow Sand and Alternative Biofiltration Processes* provides a state-of-the-art assessment on a variety of biofiltration systems from studies conducted around the world. The authors collectively represent a perspective from 23 countries and include academics, biofiltration system users, designers, and manufacturers. It provides an up-to-date perspective on the physical, chemical, biological, and operational factors affecting the performance of slow sand filtration (SSF), riverbank filtration (RBF), soil-aquifer treatment (SAT), and biological activated carbon (BAC) processes. The main themes are: comparable overviews of biofiltration systems; slow sand filtration process behavior, treatment performance and process developments; and alternative biofiltration process behaviors, treatment performances, and process developments.