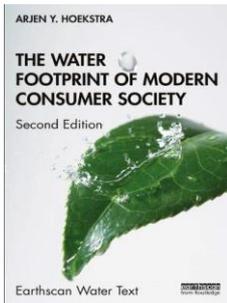


## Water Footprint of Modern Consumer Society



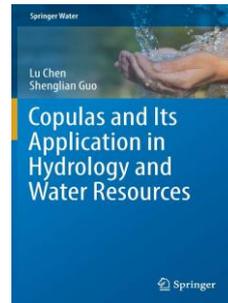
v měkké vazbě, 304 stran  
vyd. Routledge, 2.vydání, VII/2019  
ISBN 9781138354784

katalog.cena cca 1.240 Kč vč.DPH  
v této nabídce **1.010 Kč** vč.DPH

Using the water footprint concept, this impactful book aids our understanding of how we can reduce water consumption and pollution to sustainable levels. Since the publication of the first edition, the question of how to reduce our water footprint has become even more urgent. Freshwater scarcity is increasingly perceived as a global systemic risk and overconsumption of water is widespread. The water footprint, a concept founded by the author, is an indicator of direct and indirect freshwater use by a consumer or producer which can be used to analyse water usage along supply chains and assess the sustainability, efficiency and fairness of our water use. This new edition is fully revised and updated to reflect continued developments in this rapidly growing field of knowledge. New chapters are added covering the history of the water footprint concept; the environmental footprint of the human species versus planetary boundaries; and the human right to water as a foundation to equitable sharing.

All other chapters are fully revised with new findings, applications and references, including major new research on energy, vegetarian diets and intelligent water allocation over competing demands. The Water Footprint of Modern Consumer Society is a key textbook for students of interdisciplinary water studies and those taking other related courses within the environmental sciences. It will also be of interest to those working in the governmental sector, environmental and consumer organisations, the business sector and UN institutions, where there is growing interest in the water footprint concept.

## Copulas and Its Application in Hydrology and Water Resources



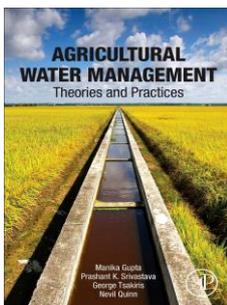
v pevné vazbě, 290 stran  
vyd. Springer, VII/2018  
ISBN 9789811305733

katalog.cena cca 4.280 Kč vč.DPH  
v této nabídce **3.420 Kč** vč.DPH

This book presents an overview of copula theory and its application in hydrology, and provides valuable insights, useful methods and practical applications for multivariate hydrological analysis using copulas. In addition, it extends the traditional bivariate model to trivariate or multivariate models. The specific applications covered include the study of flood frequency analysis, drought frequency analysis, dependence analysis, flood coincidence risk analysis and statistical simulation using copulas.

The book offers a valuable guide for researchers, scientists and engineers working in hydrology and water resources, and will also benefit graduate or doctoral students with a basic grasp of copula functions who want to learn about the latest research developments in the field.

## Agricultural Water Management



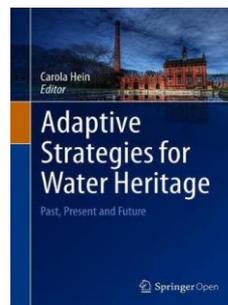
v měkké vazbě, 416 stran  
vyd. Academic Press, VII/2019  
ISBN 9780128123621

katalog.cena cca 3.300 Kč vč.DPH  
v této nabídce **2.720 Kč** vč.DPH

Agricultural Water Management: Theories and Practices advances the scientific understanding, development and application of agricultural water management through an integrated approach. This book presents a collection of recent developments and applications of agricultural water management from advanced sources, such as satellite, mesoscale and climate models that are integrated with conceptual modeling systems. Users will find sections on drought, irrigation scheduling, weather forecasting, climate change, precipitation forecasting, and more.

By linking these systems, this book provides the first resource to promote the synergistic and multidisciplinary activities of scientists in hydro-meteorological and agricultural sciences. As agricultural water management has gained considerable momentum in recent decades among the earth and environmental science communities as they seek solutions and an understanding of the concepts integral to agricultural water management, this book is an ideal resource for study and reference.

## Adaptive Strategies for Water Heritage

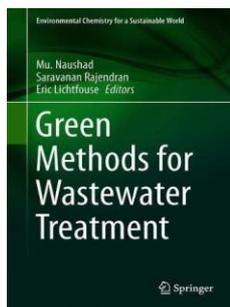


v pevné vazbě, 459 stran  
vyd. Springer, VI/2019  
ISBN 9783030002671

katalog.cena cca 1.420 Kč vč.DPH  
v této nabídce **1.140 Kč** vč.DPH

This Open Access book, building on research initiated by scholars from the Leiden-Delft-Erasmus Centre for Global Heritage and Development (CHGD) and ICOMOS Netherlands, presents multidisciplinary research that connects water to heritage. Through twenty-one chapters it explores landscapes, cities, engineering structures and buildings from around the world. It describes how people have actively shaped the course, form and function of water for human settlement and the development of civilizations, establishing socio-economic structures, policies and cultures; a rich world of narratives, laws and practices; and an extensive network of infrastructure, buildings and urban form. The book is organized in five thematic sections that link practices of the past to the design of the present and visions of the future: part I discusses drinking water management; part II addresses water use in agriculture; part III explores water management for land reclamation and defense; part IV examines river and coastal planning; and part V focuses on port cities and waterfront regeneration. Today, the many complex systems of the past are necessarily the basis for new systems that both preserve the past and manage water today: policy makers and designers can work together to recognize and build on the traditional knowledge and skills that old structure embody. This book argues that there is a need for a common agenda and an integrated policy that addresses the preservation, transformation and adaptive reuse of historic water-related structures. Throughout, it imagines how such efforts will help us develop sustainable futures for cities, landscapes and bodies of water.

## Green Methods for Wastewater Treatment

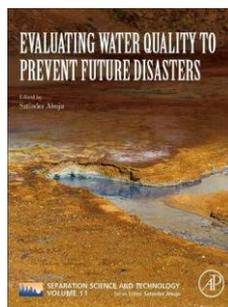


v pevné vazbě, 272 stran  
vyd. Springer, VII/2019  
ISBN 9783030164263

katalog.cena cca 3.420 Kč vč.DPH  
v této nabídce **2.740 Kč** vč.DPH

This book presents comprehensive chapters on the latest research and applications in wastewater treatment using green technologies. Topics include mesoporous materials, TiO<sub>2</sub> nanocomposites and magnetic nanoparticles, the role of catalysts, treatment methods such as photo-Fenton, photocatalysis, electrochemistry and adsorption, and anti-bacterial solutions. This book will be useful for chemical engineers, environmental scientists, analytical chemists, materials scientists and researchers.

## Evaluating Water Quality to Prevent Future Disasters

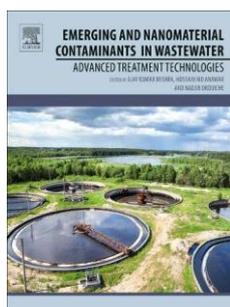


v měkké vazbě, 400 stran  
vyd. Academic Press, VI/2019  
ISBN 9780128157305

katalog.cena cca 4.500 Kč vč.DPH  
v této nabídce **3.690 Kč** vč.DPH

Evaluating Water Quality to Prevent Future Disasters, volume 11 in the Separation Science and Technology series, covers various separation methods that can be used to avoid water catastrophes arising from climate change, arsenic, lead, algal bloom, fracking, microplastics, flooding, glyphosphates, triazines, GenX, and oil contamination. This book provides a valuable resource that will help the reader solve their potential water contamination problems or help them develop their own new approaches to monitor water contamination.

## Emerging and Nanomaterial Contaminants in Wastewater

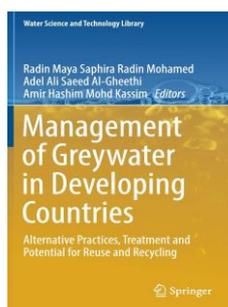


v měkké vazbě, 312 stran  
vyd. Elsevier, VII/2019  
ISBN 9780128146736

katalog.cena cca 5.500 Kč vč.DPH  
v této nabídce **4.500 Kč** vč.DPH

Emerging and Nanomaterial Contaminants in Wastewater: Advanced Treatment Technologies describes the state-of-the-art of remediation technologies, such as those involving nanotechnology, filtration devices (e.g. membranes), strategies involving adsorption and precipitation processes, development of new sorbents, nanosorbents, biosorbents, green technology, bio-electrokinetics, degradation of pollutants, advanced oxidative process, oxidative electrochemical and photocatalytic processes, catalytic degradation, and emerging hybrid technologies, such as photocatalyst membrane photoreactors using TiO<sub>2</sub>. Scientists and researchers in academia and industry will benefit from this comprehensive resource on the fundamental science behind the mechanisms at which wastewater sources can be purified from emerging contaminants.

## Management of Greywater in Developing Countries



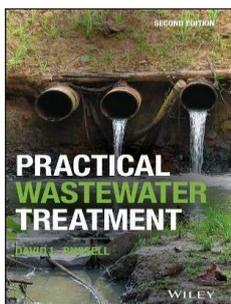
v pevné vazbě, 263 stran  
vyd. Springer, VI/2018  
ISBN 9783319902685

katalog.cena cca 3.700 Kč vč.DPH  
v této nabídce **2.960 Kč** vč.DPH

This book reviews the consequences of improper disposal of greywater into the environment and the most appropriate treatment technologies for developing countries, focusing on the potential to reuse greywater as a production medium for biomass and bio-products. It also describes the quantities and qualitative characteristics, as well as the common practice of discharging greywater in developing countries, and highlights the associated health risks. Further, it compares the management of greywater in developed and developing countries and explores the advantages and disadvantages of various treatment technologies, discussing the reuse of greywater for irrigation purposes in arid and sub-arid countries, especially in the Middle East.

The book shows the benefits of greywater and introduces low-cost technologies based on the available local facilities can be used to discharge, reuse, and recycle it.

## Practical Wastewater Treatment

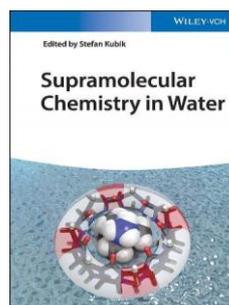


v pevné vazbě, 480 stran  
vyd. Wiley-Blackwell, 2.vydání,  
VI/2019  
ISBN 9781119100850

katalog.cena cca 3.300 Kč vč.DPH  
v této nabídce **2.690 Kč** vč.DPH

The updated and expanded guide for handling industrial wastes and designing a wastewater treatment plant. The revised and updated second edition of Practical Wastewater Treatment provides a hands-on guide to industrial wastewater treatment theory, practices, and issues. It offers information for the effective design of water and wastewater treatment facilities and contains material on how to handle the wide-variety of industrial wastes. The book is based on a course developed and taught by the author for the American Institute of Chemical Engineers. The author reviews the most current industrial practices and goals, describes how the water industry works, and covers the most important aspects of the industry. In addition, the book explores a wide-range of approaches for managing industrial wastes such as oil, blood, protein and more. A comprehensive resource, the text covers such basic issues as water pollution, wastewater treatment techniques, sampling and measurement, and explores the key topic of biological modeling for designing wastewater treatment plants. This important book: Offers an updated and expanded text for dealing with real-world wastewater problems. Contains new chapters on: Reverse Osmosis and desalination; Skin and Membrane Filtration; and Cooling tower water treatment. Presents a guide filled with helpful examples and diagrams that is ideal for both professionals and students. Includes information for handling industrial wastes and designing water and wastewater treatment plants. Written for civil or chemical engineers and students, Practical Wastewater Treatment offers the information and techniques needed to solve problems of wastewater treatment.

## Supramolecular Chemistry in Water

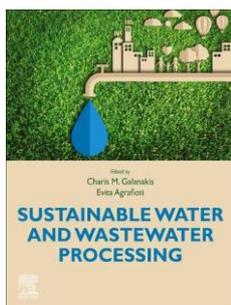


v pevné vazbě, 560 stran  
vyd. Wiley-VCH, VI/2019  
ISBN 9783527344673

katalog.cena cca 4.500 Kč vč.DPH  
v této nabídce **3.690 Kč** vč.DPH

Provides deep insight into the concepts and recent developments in the area of supramolecular chemistry in water. Written by experts in their respective field, this comprehensive reference covers various aspects of supramolecular chemistry in water?from fundamental aspects to applications. It provides readers with a basic introduction to the current understanding of the properties of water and how they influence molecular recognition, and examines the different receptor types available in water and the types of substrates that can be bound. It also looks at areas where they can be applied, such as materials, optical sensing, medicinal imaging, and catalysis. Supramolecular Chemistry in Water offers five major sections that address important topics like water properties, molecular recognition, association and aggregation phenomena, optical detection and imaging, and supramolecular catalysis. It covers chemistry and physical chemistry of water; water-mediated molecular recognition; peptide and protein receptors; nucleotide receptors; carbohydrate receptors; and ion receptors. The book also teaches readers all about coordination compounds; self-assembled polymers and gels; foldamers; vesicles and micelles; and surface-modified nanoparticles. In addition, it provides in-depth information on indicators and optical probes, as well as probes for medical imaging. -Covers, in a timely manner, an emerging area in chemistry that is growing more important every day -Addresses topics such as molecular recognition, aggregation, catalysis, and more -Offers comprehensive coverage of everything from fundamental aspects of supramolecular chemistry in water to its applications.

## Sustainable Water and Wastewater Processing



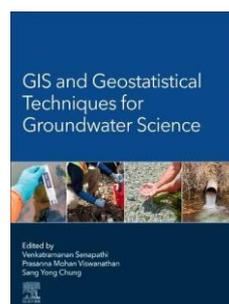
v měkké vazbě, 366 stran  
vyd. Elsevier, VI/2019  
ISBN 9780128161708

katalog.cena cca 5.500 Kč vč.DPH  
v této nabídce **4.500 Kč** vč.DPH

Sustainable Water and Wastewater Processing covers the 12 most current topics in the field of sustainable water processing, with emphasis given to water as a resource (quality, supply, distribution, and aquifer recharge). Topics covered include emerging sustainable technologies for potable and wastewater treatment, water reuse and recycling, advanced membrane processes, desalination technologies, integrated and hybrid technologies, process modeling, advanced oxidative and catalytic processes, environmentally, economically and socially sustainable technology for water treatment, industrial water treatment, reuse and recovery of materials, and emerging nanotechnology and biotechnology for water processing. Responding to the goals of sustainability requires the maximum utilization of all water resources, water processing with restricted energy costs and reduced greenhouse gas production.

Following these trends, this book covers all the important aspects of sustainable water processing and support.

## GIS and Geostatistical Techniques for Groundwater Science



v měkké vazbě, 320 stran  
vyd. Elsevier, VI/2019  
ISBN 9780128154137

katalog.cena cca 3.600 Kč vč.DPH  
v této nabídce **2.960 Kč** vč.DPH

GIS and Geostatistical Techniques for Groundwater Science provides a detailed synthesis of the application of GIS and geostatistics in groundwater studies. As the book illustrates, GIS can be a powerful tool for developing solutions for water resource problems, assessing water quality, and managing water resources. Beginning with an introduction to the history of GIS and geostatistical techniques in groundwater studies, the book then describes various spatial techniques, including case studies for various applications, from quality assessment, to resource management.

This book assembles the most up-to-date techniques in GIS and geostatistics as they relate to groundwater, one of our most important natural resources.