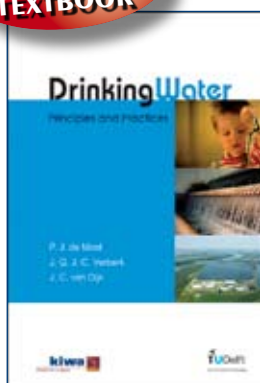


Water Management and Related Titles

**BESTSELLING
TEXTBOOK**



DRINKING WATER

Principles and Practices

by **P J de Moel**, **J Q J C Verberk** (TU Delft, The Netherlands) & **J C van Dijk** (TU Delft, The Netherlands & Kiwa Water Research, The Netherlands)

Key Features

- The best illustrated textbook on water supply, written by internationally recognized experts
- 10 separate modules for tailor-made courses and self-education, complete with questions and answers
- Drinking water production schemes and processes for groundwater and surface water
- Backgrounds on water quality, water consumption and water distribution
- Backgrounds on legislation, finance, design and planning
- Inside information on the Dutch drinking water model
- Lecture notes from a leading technical university on drinking water supply

416pp

978-981-256-836-6

November 2006

£45



Series on Environmental Science and Management – Vol. 4

BIOLOGY OF WASTEWATER TREATMENT

Second Edition

by **N F Gray** (University of Dublin, Ireland)

This comprehensive text provides the reader with both a detailed reference and a unified course on wastewater treatment. Aimed at scientists and engineers, it deals with the environmental and biological aspects of wastewater treatment and sludge disposal.

“Anyone interested in the biology of wastewater treatment will find this book useful.”

Biotechnology Advances

“... is both well written and informative and it should appeal to anyone with an interest in wastewater treatment. It covers the ground in sufficient depth to stay useful throughout one’s entire career, serving as an essential reference, allowing one to dive in and out at will as one’s needs dictate ... manages to fulfil what I believe to be its aim of bridging the gap between wastewater engineering and its underlying biology.”

Journal of the Chartered Institution of Water and Environmental Management

1444pp

978-1-86094-328-7

978-1-86094-332-4(pbk)

April 2004

£195

£119

WETLANDS FOR TROPICAL APPLICATIONS

Wastewater Treatment by Constructed Wetlands

edited by **Norio Tanaka** (Saitama University, Japan), **W J Ng** (Nanyang Environment & Water Research Institute, Singapore) & **K B S N Jinadasa** (Saitama University, Japan)

This book provides a systematic exposition of the design features of constructed wetlands, and their management (in terms of siting, physical maintenance, and operation). Only very few books (or chapters) have been published on constructed wetlands in tropical conditions and none are current. The selection of plant species, managing their growth and harvesting cycles, and the impact these have on the attenuation of organic and inorganic pollutants, nutrients, and pathogens would be of interest to students and practitioners of the art working under tropical conditions. The potential of constructed wetlands as a low-cost intervention for developing countries in tropical regions that faced water pollution problems, in particular, deserves to be explored systematically.

Contents:

- * Introduction to Constructed Wetlands
- * Advantages of Wetlands under Tropical Conditions
- * Wetlands in the Developing Country Environment
- * Wetlands Treatment — Pollutant Removal, Nutrient Dynamics, Water Quality Enhancement and Design of Constructed Wetlands
- * Wetland Plant Species Selection
- * Operational and Maintenance Problems in Wetlands, Field Experience
- * Cost and Sustainability of Constructed Wetlands in the Tropics

200pp (approx.)

978-1-84816-297-6

Summer 2010

£44

FORTHCOMING

APPLIED BIOPHYSICS OF ACTIVATED WATER

The Physical Properties, Biological Effects and Medical Applications of MRET Activated Water

by **Vladimir I Vysotskii** (*Kiev National Shevchenko University, Ukraine*), **Alla A Kornilova** (*Moscow State University, Russia*) & **Igor V Smirnov** (*Global Quantech, Inc., USA*)

This book provides a detailed review of the modern theories dealing with the structure and properties of water. It also presents an analysis of the research on the effect of activated water on biological systems such as animals, microorganisms, and plants. The results of experiments on the influence of activated water on "pure" microbiological cultures and their natural associations are described, the studies being carried out under both aerobic and anaerobic conditions.

Key Features

- Presents the results of complex experimental and theoretical studies of the characteristics of activated water obtained under a controlled action of the specific non-ionizing low-frequency electromagnetic emission on ordinary water
- Provides a comprehensive overview of the authors' work that includes innovative discoveries related to the effect of subtle, low-frequency, random magnetic fields on the molecular structure and physical properties of water
- Gives the results of the theoretical analysis of a possible mechanism of water memory and methods of its stimulation

Readership: Biophysicists; physicists; medical doctors; researchers in molecular physics, hydrodynamics, optics, electrodynamics, condensed matter physics, microbiology, epidemiology and agriculture.

280pp (approx.)
978-981-4271-18-9

August 2009
£64

FORTHCOMING
TEXTBOOK**MOLECULAR THEORY OF WATER AND AQUEOUS SOLUTIONS**

Part 1: Understanding Water

by **Arieh Ben-Naim** (*The Hebrew University of Jerusalem, Israel*)

The aim of this book is to explain the unusual properties of both pure liquid water and simple aqueous solutions, in terms of the properties of single molecules and interactions among small numbers of water molecules. It is mostly the result of the author's own research spanning over 40 years in the field of aqueous solutions. An understanding of the properties of liquid water is a prelude to the understanding of the role of water in biological systems and for the evolution of life.

The book is targeted at anyone who is interested in the outstanding properties of water and its role in biological systems. It is addressed to both students and researchers in chemistry, physics and biology.

Contents:

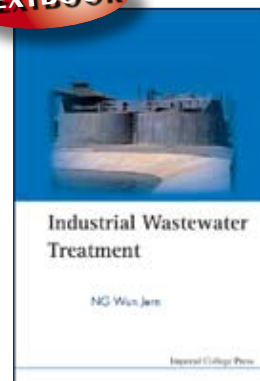
- * Survey of the Properties of Water
- * Theoretical Approaches to the Study of Liquid Water
- * Water with One Simple Solute
- * Water with Two Solute Molecules: Hydrophobic Hydrophilic Phenomena

Readership: Anyone who is interested in the outstanding properties of water and its role in biological systems. It is addressed to both students and researchers in chemistry, physics and biology.

400pp (approx.)
978-981-283-760-8

June 2009
£64

TEXTBOOK

**INDUSTRIAL WASTEWATER TREATMENT**

by **Ng Wun Jern** (*National University of Singapore*)

This book adopts a "show and tell" approach to guiding readers in the area of industrial wastewater treatment and the facilities associated with such treatment. It assumes the reader is familiar with wastewater treatment theory but may be unfamiliar with the reasons why certain unit processes or equipment are included in practice, how these work, and why they fail therein. Industrial wastewaters are extremely varied and this complicates their treatment and discussion. Numerous tables showing industrial wastewater characteristics and photographs of facilities are provided so that the reader can better appreciate industrial wastewater treatment and its "culture" in Asia, and gain a degree of familiarity with the subject unachievable if only text descriptions were used. The book aims to provide a link between theory and practice. It does not only cover typical textbook material but also includes much information that would usually be accessible only to persons who have handled wastewaters and treatment facilities personally. The numerous examples provided have been drawn from the author's own field experience over two decades in Asia.

Contents:

- * Nature of Industrial Wastewaters
- * The Sewage Treatment Plant Example
- * The Industrial Wastewater Treatment Plant — Preliminary Unit Processes
- * The Industrial Wastewater Treatment Plant — Biological
- * The Industrial Wastewater Treatment Plant — Sludge Management
- * Chemicals and Pharmaceuticals Manufacturing Wastewater
- * Piggery Wastewater
- * Slaughterhouse Wastewater
- * Palm Oil Mill and Refinery Wastewater

Readership: Senior undergraduates, graduate students and environmental engineers.

164pp

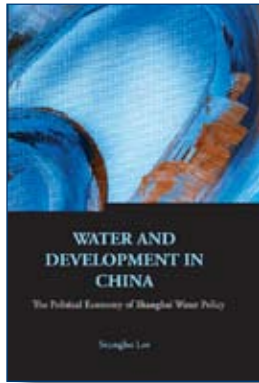
978-1-86094-580-9

978-1-86094-664-6(pbk)

June 2006

£25

£15



Series on Contemporary China – Vol. 6

WATER AND DEVELOPMENT IN CHINA

The Political Economy of Shanghai Water Policy

by **Seungho Lee** (*University of Nottingham, UK*)

This book aims to explore the extent to which Shanghai has managed to cope with water supply as well as water quality control challenges in terms of its sociopolitical and economic development since 1990, with a special reference to the impact of social actors on water policy. The book focuses on the contributions from each actor in water policy — the most influential actor being the Shanghai government, private companies, environmental NGOs, Shanghai citizens, and international development agencies. The Shanghai water sector, in the recent few years, has been diversified through interactions between the Shanghai government and the newly emergent social actors. Consequently, water policy in Shanghai is influenced by multilateral interactions between these actors with their diverse interests and goals.

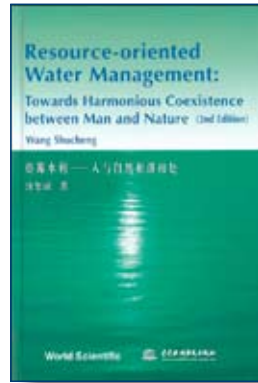
Key Features

- First ground-breaking book in English on Shanghai's water issues, which constitutes one of the essential elements for China's sustainable development
- Critical exploration and application of social theory to the Chinese context
- Comprehensive collection of first-hand data and information acquired in China and in-depth analysis through interviews with experts
- Highlights of the transformation of Chinese society in environmental policy-making in the reform era with reference to newly emergent actors, private companies and environmental NGOs
- Up-to-date information and analysis of the water industry in Shanghai and China
- Reflection of the contribution of international development agencies to Shanghai's water policy-making

Readership: Regional specialists, planners, policy analysts and consultants interested in the contemporary development in China and Shanghai in particular.

332pp
978-981-256-819-9

December 2006
£48



RESOURCE-ORIENTED WATER MANAGEMENT

Towards Harmonious Coexistence between Man and Nature

(2nd Edition)

by **Wang Shucheng** (*Minister of Water Resources, P R China*)

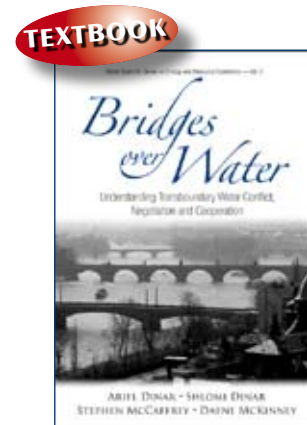
This book compiles 13 selected addresses and papers on resource-oriented water management by Mr Wang Shucheng, Chinese Minister of Water Resources, from March 1999 to June 2005. In view of the economic and social development in China, as well as the current situation of Chinese water resources, the author proposes China should transit from project-based water management to resource-oriented water management, from traditional water management to modern and sustainable water management. The book systematically expounds the theoretical implications and practical basis for resource-oriented water management and addresses a series of questions related to water resources development and management.

Contents:

- * From Project-based Water Management to Resource-oriented Water Management: Advance China's Water Management towards the 21st Century
- * About People's Perception Change of Water in Nine Aspects
- * Theoretical Implication and Practical Basis of Resource-oriented Water Management
- * Water Rights and Water Market — Economic Measures for Achieving Optimal Allocation of Water Resources
- * Water Rights Management and Water-saving Society
- * Analysis, Readjustment and Control of Water Environment Carrying Capacity
- * Essential Features, Theoretical Foundation and Institutional Assurance of Resource-oriented Water Management
- * Essential Points for Building a Water-saving Society
- * Some More Thoughts on Harmonious Coexistence Between Man and Nature
- * Transfer of Water Rights Is an Important Means to Optimize Allocation of Water Resources
- * On Dams and Ecology
- * River-basin Authorities Should Speak for the Rivers
- * Plan C: A Self-disciplined Development Pattern

236pp
978-981-256-736-9

March 2006
£29



World Scientific Series on Energy and Resource Economics – Vol. 3

BRIDGES OVER WATER

Understanding Transboundary Water Conflict, Negotiation and Cooperation

by **Ariel Dinar** (*The World Bank and Johns Hopkins University, USA*), **Shlomi Dinar** (*Florida International University, USA*), **Stephen McCaffrey** (*University of the Pacific, USA*) & **Daene McKinney** (*University of Texas, Austin, USA*)

"Is it true that water scarcity must lead to conflict? Might it not lead to cooperation instead? How can conflict be avoided? How can cooperation be promoted? This new book provides the answers to these questions — or, if not the answers, the means for finding the answers. It fills a large gap in the literature and will, I predict, become the standard text in this important field."

Scott Barrett

Johns Hopkins University School of Advanced International Studies

"No other book known heretofore presents such a wide and deep coverage of water issues as this book has done. No other book has gone through such a comprehensive analysis of the professional, technical, political and legal aspects of water and international water as the authors of this book have collectively done. The combination of their talents and impressive track records and backgrounds has produced a book that is unique in the literature on water... The book is so valuable that it is a must for ALL water and environment professionals, students and academicians. It is also a must for political science and public policy students and practitioners."

Munther J Haddadin

Author and Professor of Water Resources former Minister of Water and Irrigation, Jordan and Senior Jordanian Negotiator and Head of Water Negotiating Team Middle East Peace Process

468pp
978-981-256-893-9

Oct 2007
£42

