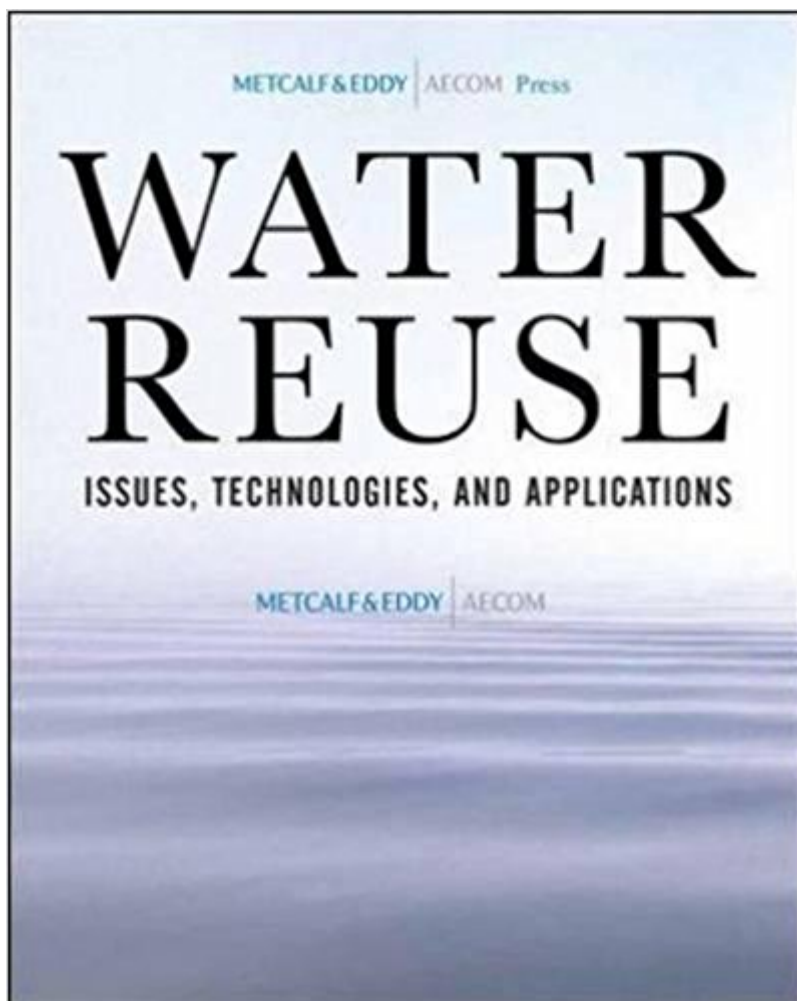


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# Water Reuse: Issues, Technologies, And Applications



## Synopsis

An Integrated Approach to Managing the World's Water Resources **Water Reuse: Issues, Technologies, and Applications** equips water/wastewater students, engineers, scientists, and professionals with a definitive account of the latest water reclamation, recycling, and reuse theory and practice. This landmark textbook presents an integrated approach to all aspects of water reuse \_ from public health protection to water quality criteria and regulations to advanced technology to implementation issues. Filled with over 500 detailed illustrations and photographs, **Water Reuse: Issues, Technology, and Applications** features:

- In-depth coverage of cutting-edge water reclamation and reuse applications
- Current issues and developments in public health and environmental protection criteria, regulations, and risk management
- Review of current advanced treatment technologies, new developments, and practices
- Special emphasis on process reliability and multiple barrier concepts approach
- Consideration of satellite and decentralized water reuse facilities
- Consideration of planning and public participation of water reuse

Inside This Landmark **Water/Wastewater Management Tool** – Water Reuse: An Introduction – Health and Environmental Concerns in Water Reuse – Technologies and Systems for Water Reclamation and Reuse – Water Reuse Applications – Implementing Water Reuse

## Book Information

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a complete treatment about water and water reuse.Very, very good!!!!!!!

Great product and price, great delivery time and package, good for my job

This was a replacement for a copy that we had. One copy disappeared, so it must be a really good text on the subject :)Recommended for engineering collections and water utilities

Great book

it is a good reference book that covers a lot of info. anyone who want to read on the starting of the first sewers and reclaim and reuse applications should read this.

With communities around the world facing a depletion of their water sources, it is being realised that using water just once is not merely a luxury but a design flaw. Water reuse could help to: 1) substitute reclaimed water for applications that do not require potable-quality water; 2) augment water sources and provide an alternative source of supply; 3) protect aquatic ecosystems by reducing the diversion of freshwater; 4) reduce the contaminants and nutrients entering waterways; 5) reduce the need to build dams and reservoirs and 6) comply with environmental regulations. In other words, water reuse could form the most important component of sustainable development. Water Reuse - Issues, Technologies and Applications published by McGraw Hill brings a wealth of knowledge to readers on a subject which is occupying the attention of planners from California to Queensland. Authored by some of the well-acclaimed experts in the field of water reuse such as Takashi Asano, Franklin Burton, Harold Leverenz, Ryujiro Tsuchihashi and George Tchobanoglous, the textbook runs into more than 1,500 pages. Backed by well-known environmental engineering firm Metcalf & Eddy, which has developed many textbooks in the past, this is the first textbook to comprehensively discuss issues related to water reuse, policy, latest treatment technologies and real-life examples of water reuse applications. Dr Takashi Asano, the lead author is Professor Emeritus of Civil and Environmental Engineering at University of California at Davis. He was a recipient of Stockholm Water Prize in 2001 for his outstanding work in water reuse. Water Reuse - Issues, Technologies and Applications has been organised into five parts. The first part

gives an introduction to water reuse which can be easily comprehended even by laypersons. Past and current practices are discussed along with a discussion of milestone water reuse projects in California and Florida. The second part of the book looks at health and environmental concerns in water reuse. The characteristics of municipal wastewater have been examined as also water reuse regulations and guidelines. Since the health risks of water reuse are significant, a chapter has been devoted to risk analysis, which includes chemical risk and microbial risk assessment. The third part of the textbook is devoted to the technologies and systems used for water reclamation and reuse. Detailed design has not been focussed upon although the performance of the technologies has been discussed extensively and the concerns related to dissolved contaminants and pathogenic microorganisms have been highlighted. Even satellite treatment systems, onsite and decentralised systems and dual plumbing systems have been explored in various chapters. It has been suggested that for learning more about detailed designs of the processes, the companion textbook *Wastewater Engineering: Treatment and Reuse* by Tchobanoglous, Burton and Stensel could be used. Various water reuse applications such as agricultural irrigation, industrial uses, indirect and direct potable reuse have been taken up in Part Four along with several notable projects. Among the important case studies taken up are: San Diego Water Repurification Project, Singapore's NEWater project, Windhoek project in Namibia and the demonstration project in Denver, Colorado. Before every chapter, the working terminology has been explained which makes it simpler to use the book (as compared to a glossary of terms inserted inconveniently at the back). A large number of data and information tables are dispersed throughout the book along with illustrations and worked examples which are enormously useful. The final part of the book deals with implementation of water reuse. Issues such as responding to community concerns, development of support through educational programmes and the use of financial instruments have been discussed. The increasing importance of water reclamation and reuse has led to the need for specialised instruction in the subject for the benefit of engineering and science students, practising engineers, scientists, project managers and government officials. *Water Reuse - Issues, Technologies and Applications* fills a vacuum which has been felt for long. All the information scattered in conference papers, journal articles and discussion notes have been meticulously pieced together to present what must be the most complete treatise available on water reuse today.

This book is some 1600 pages detailing almost everything you can think of for sewage. The book lacks on expanding from this but how big can you make a single book. This is an Consulting Civil Engineers Bible as such. If you are designing anything to do with reusing sewage, treating it

anything this has good information for you. The multiple picture also help braking up all the text in the book.

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