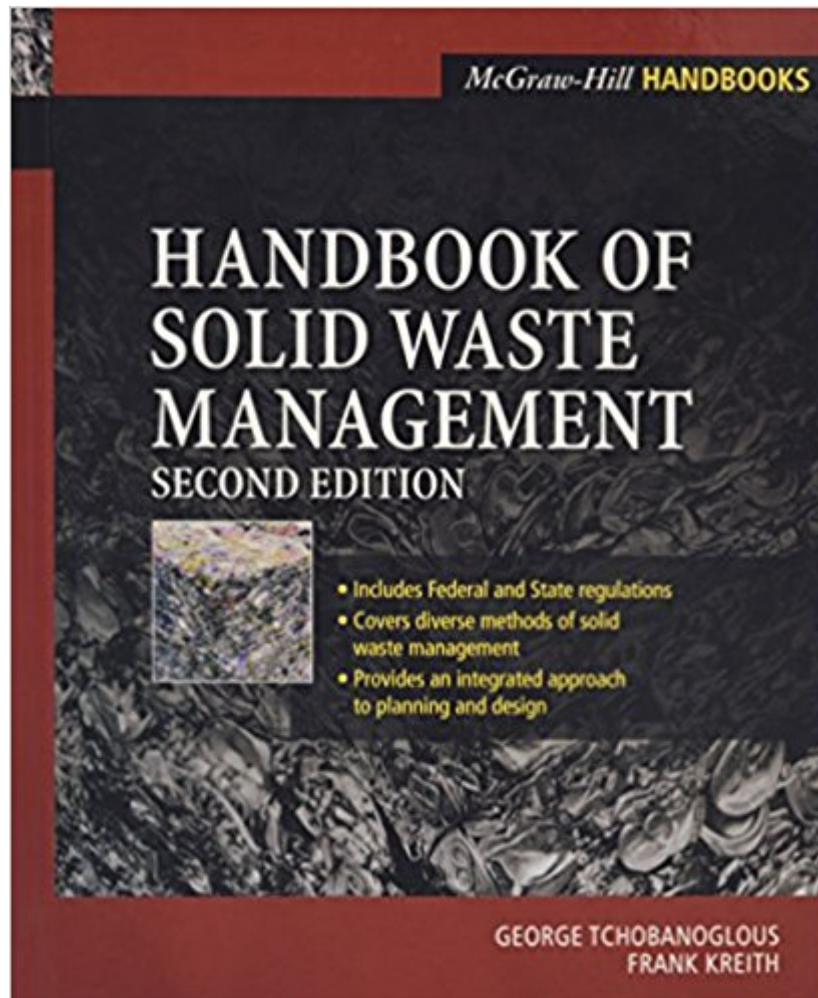




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# Handbook Of Solid Waste Management



## Synopsis

In a world where waste incinerators are not an option and landfills are at over capacity, cities are hard pressed to find a solution to the problem of what to do with their solid waste. Handbook of Solid Waste Management, 2/e offers a solution. This handbook offers an integrated approach to the planning, design, and management of economical and environmentally responsible solid waste disposal system. Let twenty industry and government experts provide you with the tools to design a solid waste management system capable of disposing of waste in a cost-efficient and environmentally responsible manner. Focusing on the six primary functions of an integrated system--source reduction, toxicity reduction, recycling and reuse, composting, waste- to-energy combustion, and landfilling--they explore each technology and examine its problems, costs, and legal and social ramifications.

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## Customer Reviews

THE FIRST TRULY INTEGRATED APPROACH TO THE MUNICIPAL SOLID WASTE PROBLEM  
UPDATED AND EXPANDED COVERAGE OF FEDERAL AND STATE REGULATIONS

In a world where incinerators are no longer an option and landfills are filled to capacity, cities are hard pressed to find a solution to the problem of what do with their solid waste. In this practical resource more than 20 top industry and government experts provide all the tools needed to successfully plan, design, implement, and manage a cost-efficient, environmentally

sound municipal waste management system. Focusing on the six primary functions of an integrated system: source reduction, toxicity reduction, recycling and reuse, composting, waste-to-energy combustion, and landfilling – the Handbook fully explores each technology and examines its problems, costs, and legal and social ramifications. Addressing both the technical and regulatory aspects of municipal waste disposal, the authors cover such wide-ranging topics as facility siting, financing a solid waste management program, environmental risk assessment and considerations, oil and battery recycling, tire disposal, ash disposal, emission monitoring and control, and much more. This new Second Edition has been revised to include: updated chapters on solid waste characteristics, recycling, landfilling, and federal and state regulations. There is also new material on optical separation techniques, weight-based collection systems, yard waste management, economics, collection cost and technologies, and safety and risk assessment. Supplemented by revealing case studies and hundreds of how-to illustrations, this is an indispensable working tool for engineers and public officials interested in planning, designing, constructing, or managing the most effective waste management facility possible.

George Tchobanoglous is a professor emeritus of civil and environmental engineering at the University of California at Davis. He received a B.S. degree in civil engineering from the University of the Pacific, an M.S. degree in sanitary engineering from the University of California at Berkeley, and a Ph.D. in environmental engineering from Stanford University. His principal research interests are in the areas of solid waste management, wastewater treatment, wastewater filtration, aquatic systems for wastewater treatment, and individual onsite treatment systems. He has taught courses on these subjects at UC Davis for the past 32 years. He has authored or co-authored over 350 technical publications including 12 textbooks and 3 reference books. He is the principal author of a textbook titled *Solid Waste Management: Engineering Principles and Management Issues*, published by McGraw-Hill. The textbooks are used in more than 200 colleges and universities throughout the United States, and they are also used extensively by practicing engineers in the United States and abroad. Dr. Tchobanoglous is an active member of numerous professional societies. He is a corecipient of the Gordon Maskew Fair Medal and the Jack Edward McKee Medal from the Water Environment Federation. Professor Tchobanoglous serves nationally and internationally as a consultant to government agencies and private concerns. He is a past president of the Association of Environmental Engineering Professors. He is consulting editor for the McGraw-Hill book company series in *Water Resources and Environmental Engineering*. He has served as a member of the California Waste Management Board. He is a Diplomate of the American

Academy of Environmental Engineers and a registered Civil Engineer in California. Frank Kreith is a professor emeritus of engineering at the University of Colorado at Boulder, where he taught in the Mechanical and Chemical Engineering Departments from 1959 to 1978. For the past 13 years, Dr. Kreith served as the American Society of Mechanical Engineers (ASME) legislative fellow at the National Conference of State Legislatures (NCSL), where he provided assistance on waste management, transportation, and energy issues to legislators in state governments. Prior to joining NCSL in 1988, Dr. Kreith was chief of thermal research at the Solar Energy Research Institute (SERI), now the National Renewable Energy Laboratory (NREL). During his tenure at SERI, he participated in the presidential domestic energy review and served as an advisor to the governor of Colorado. In 1983, he received SERI's first General Achievement Award. He has written more than a hundred peer-reviewed articles and authored or edited 12 books. Dr. Kreith has served as a consultant and advisor all over the world. His assignments included consultancies to Vice Presidents Rockefeller and Gore, the U.S. Department of Energy, NATO, the U.S. Agency for National Development, and the United Nations. He is the recipient of numerous national awards, including the Charles Greeley Abbott Award from the American Solar Energy Society and the Max Jakob Award from ASME-AIChE. In 1992, he received the Ralph Coates Roe Medal for providing technical information to legislators about energy conservation, waste management, and environmental protection, and in 1998 he was the recipient of the prestigious Washington Award for "unselfish and preeminent service in advancing human progress."

Losses of background information about Waste Management overview and a good reference for what works and what really was/is used.

I am going to use this book for a CE solid waste class as the text book. It has some deficiencies in that there are no problems in the text. However, since these are seniors and MS students, I will make the class project based and provide sample calculations as examples. I looked at a large number of books and this is the best information compendium I could find. I will also provide the students with a link to several State Design guidances, some like Oregon are really complete. I like this book.

Solid waste management is a rapidly revolving field and one cannot rely on older editions of text/hand books. Laws and regulations, not just federal and municipal, but worldwide as well are being legislated routinely. Landfill technology must be improved to control leachate and

methane; implications of 'high tech' waste from electronics must be recognized as never before; incineration can be promising if proper containment of pollution, and reasonable costs can be implemented; separation technologies to distinguish different color of glass, grades of paper, types of metals and plastics need to be fully developed for use in recycling facilities. And this handbook is the best source for a novice solid waste professional.

must have for the PE Environmental exam. It had the answers!

I was assigned this book for a graduate level solid/hazardous waste management class. Good information, but more suited to a lower level class.

very good book

I am currently enrolled in a solid and hazardous waste course at my University. The book has been a tremendous source of information, and well worth the investment.

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