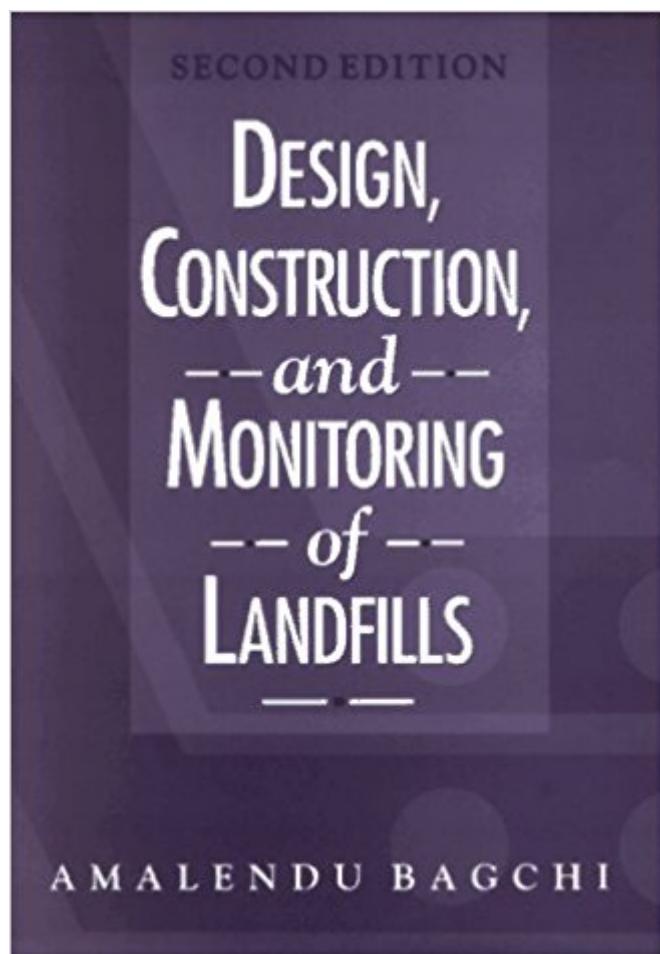


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Design, Construction, And Monitoring Of Landfills



Synopsis

Design, Construction, and Monitoring of Landfills A New Edition of the reference book more professionals are turning to. Like its successful first edition, this updated Second Edition of Design, Construction, and Monitoring of Landfills provides easy access to the current theory and practice of landfill engineering. Using an integrated, multidisciplinary approach, it serves as the ideal desk reference for environmental, civil, and geotechnical engineers, hydrogeologists, and others involved in hazardous and non-hazardous waste disposal. This new edition features material on landfill operation, the latest advances in waste handling, and new liner and cover technologies. This book offers a wealth of state-of-the-art information, such as: Landfill site selection methods Maintaining quality control during construction The economic analysis of landfills The fundamentals of landfill monitoring Attenuation: how it works, factors affecting it, the design of attenuation landfills Strategies for dealing with leachate, gas, and storm water How to estimate the costs of construction, operation, final closure, and long-term monitoring of landfills No other single source offers as much time- and money-saving information on landfills as Design, Construction, and Monitoring of Landfills by Amalendu Bagchi. For government agencies, consulting firms, environmental engineers, and others involved in waste management, it is sure to become a standard reference. Of related interest; Statistical Methods for Groundwater Monitoring Robert Gibbons 1994 (0-471-58707-9) 256 pp. Waste Containment Systems; Waste Stabilization and Landfills: Design and Evaluation Hari D. Sharma and Sangeeta P. Lewis 1994 (0-471-57536-4) 528 pp.

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Customer Reviews

The second edition of this practical guide explains how landfills are designed and built and how their performance is monitored over time. It covers new construction-related issues, new liner and cover technologies and new environmental regulations. Readers will learn how to implement the new technologies and understand the new RCRA regulations as they apply to landfills.

Updated-to cover the latest advances in landfill technology and current issues in landfill operation, this new Second Edition of Amalendu Bagchi's book maintains the integrated, multidisciplinary approach that made the first edition so widely accepted. Design, Construction, and Monitoring of Landfills provides, in one convenient place, a comprehensive survey of the current theory and practice of landfill engineering. It serves as the ideal desk reference for environmental, civil, and geotechnical engineers, hydrogeologists, and others who manage hazardous and non-hazardous waste disposal. It is also an ideal introduction for anyone interested in the fundamentals of landfill technology. A sample of the essential, state-of-the-art information this book offers:

- Landfill site selection methods
- Detailed design steps and drawings of most landfill elements
- Maintaining quality control during construction
- New information on various liner materials
- Economic analysis of landfills
- Fundamentals of landfill monitoring
- Parameters for characterizing different types of waste
- Summary of attenuation mechanisms of various pollutants, factors affecting attenuation, and design of natural attenuation landfills
- Retrofitting natural attenuation landfills to function as containment landfills
- Estimating leachate volume for closed landfills
- How gas and leachate are generated in a landfill
- Design methods for gas venting
- A simple approach for designing storm water ditches
- Fundamental concepts for designing a groundwater monitoring network
- Formulae for estimating proof of financial responsibility
- How to estimate the costs of construction, operation, final closure, and long-term monitoring of landfills

No other single resource offers as much valuable information on landfills. Design, Construction, and Monitoring of Landfills is an indispensable reference for government agencies, consulting firms, environmental engineers, hydrogeologists, and all persons interested in landfill technology.

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