

Second Edition

Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes

Remedial Scope and Efficacy



Subijoy Dutta

Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes
Second Edition

Dutta

"This comprehensive work will serve working engineers, government regulators, and environmental stewards. The reader will be solidly grounded in a wide range of solutions for environmental remediation. And such solutions will surely continue to be needed for a long time to come."

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Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes will provide the reader with a simple and clear path to analyzing the full range of options to manage/treat any solid, hazardous, or medical waste problems/issues at hand.

This book aims to disseminate information on available remediation treatment technologies to developing and developed countries. It will also include adequate information on all available treatment technologies for waste treatment technologies (hazardous, non-hazardous municipal solid waste, and medical waste). The technologies will be grouped into the following categories: Containment Technology; Soil Washing; Thermal Treatment; Vapor Extraction; Bioremediation including Phytoremediation; Plasma/Incineration; Other Physical/Chemical Treatments.

It enlightens the effect of emissions during remediation activities on climate change and suggests measures to identify and control such emissions. It also covers the application of remote sensing technologies with examples and the impending issue of proper disinfection and disposal of COVID-19-related waste.

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Subijoy Dutta



September 2021: 258pp
38 illustrations

Hb: 978-0-367-43550-9 | \$140.00
eBook: 978-1-003-00406-6

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2ND EDITION

Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes

Remedial Scope and Efficacy

Subijoy Dutta, S&M Engineering Services, Crofton, Maryland, USA

The purpose of this book is to disseminate information on available remediation treatment technologies to developing and developed countries. It provides details on various waste treatment technologies for hazardous and medical wastes. It will provide the reader with a simple and clear path to analyzing the full range of options to manage/treat any solid, hazardous, or medical waste problems/issues at hand. It should help the reader to first identify what type of waste they are dealing with and the site remediation process as a whole to appropriately resolve the situation. This book is intended for almost anyone involved in environmental pollution control.

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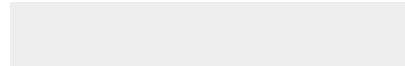


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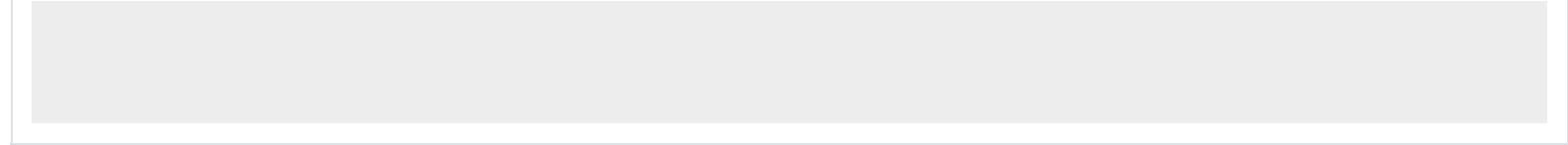
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By [Subijoy Dutta](#)
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264 Pages 38 B/W Illustrations

by CRC Press



Description

Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes will provide the reader with a simple and clear path to analyze the full range of options to manage/treat any solid, hazardous, or medical waste problems/issues at hand.

This book aims to disseminate information on available remediation treatment technologies to developing and developed countries. It also includes adequate information on all available treatment technologies for different types and categories of waste (hazardous, non-hazardous municipal solid waste, and medical waste). The technologies are grouped into the following categories: Containment technology; Soil washing; Thermal treatment; Vapor extraction; Bioremediation including Phytoremediation; Plasma/Incineration; Other Physical/Chemical treatments. It enlightens the effect of emissions during remediation activities on climate change and suggests measures to identify and control such emissions. It also covers the application of remote sensing technologies with examples and the impending issues of proper disinfection and disposal of COVID-19 related waste pertaining to the current pandemic.

It is intended for almost anyone — ranging from college students and early career professionals interested in environmental pollution control, to graduate students, researchers and experienced professionals.

This book will:

- cover several recent developments on various treatment technologies, including in situ applications and their emission/migration control methods including remote sensing technologies; deal with municipal solid waste, their treatment/disposal methods, recycling, and reuse in addition to the hazardous and medical waste management program;
- assist civil/environmental engineering students and local community organizations in evaluating the impact of an industry and its associated waste produced on-site; and
- cover how best to treat/manage the waste to arrive at a safe operation without impacting human health and the local environment.

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