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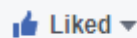
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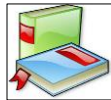


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22 Jun 2018

NEW BOOKS!

NEW ARRIVAL

- 1) Handbook of Regression Methods
- 2) Environmental Engineering and Activated Sludge Processes
- 3) Thermal Power Plants
- 4) Chemical Engineering Fluid Mechanics
- 5) Biological Treatment of Solid Waste
- 6) Water and Wastewater Conveyance
- 7) Membrane Bioreactor Processes
- 8) Waste Management and Valorization
- 9) Above Ground Storage Tanks
- 10) Handbook of Advanced Industrial and Hazardous Wastes Management
- 11) Sustainable Slope Stabilisation Using recycled Plastic Pins
- 12) Oil Spill Impacts: Taxonomic and Ontological Approaches



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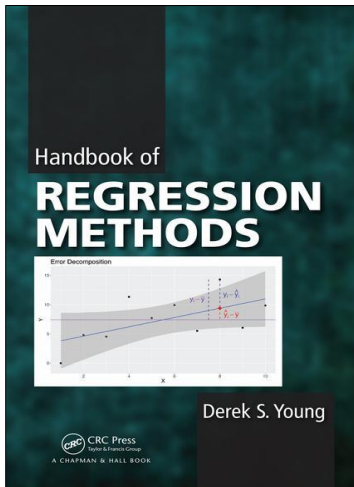
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BOOK HIGHLIGHT

**TAJUK** : Handbook of Regression Methods**PENGARANG** : Derek Scott Young

ABSTRAK : Handbook of Regression Methods concisely covers numerous traditional, contemporary, and nonstandard regression methods. The handbook provides a broad overview of regression models, diagnostic procedures, and inference procedures, with emphasis on how these methods are applied. The organization of the handbook benefits both practitioners and researchers, who seek either to obtain a quick understanding of regression methods for specialized problems or to expand their own breadth of knowledge of regression topics.

This handbook covers classic material about simple linear regression and multiple linear regression, including assumptions, effective visualizations, and inference procedures. It presents an overview of advanced diagnostic tests, remedial strategies, and model selection procedures. Finally, many chapters are devoted to a diverse range of topics, including censored regression, nonlinear regression, generalized linear models, and semiparametric regression.

Features

- Presents a concise overview of a wide range of regression topics not usually covered in a single text.
- Includes over 80 examples using nearly 70 real datasets.
- Offers a Shiny app containing all examples, thus allowing access to the source code and the ability to interact with the analyses.

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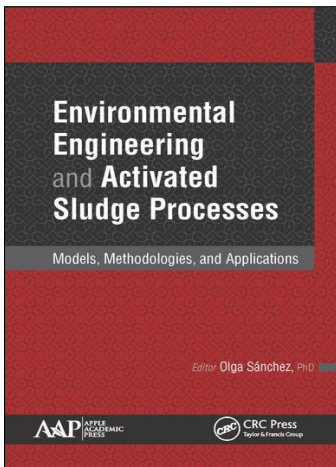


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TAJUK : Environmental Engineering and Activated Sludge Processes

PENGARANG : Olga Sanchez

ABSTRAK : The activated sludge process is one of the most versatile and commonly used wastewater treatment systems in the world. In the past, when industrial wastewater treatment focused on removing biological oxygen demand and suspended solids, waste water plants needed different processes and technology. The shift to the activated sludge process means environmental engineers must build new treatment plants and retrofit old ones. In this compendium, the editor, an experienced and well-published scientist in the field, has brought together articles that relate to the new requirements.

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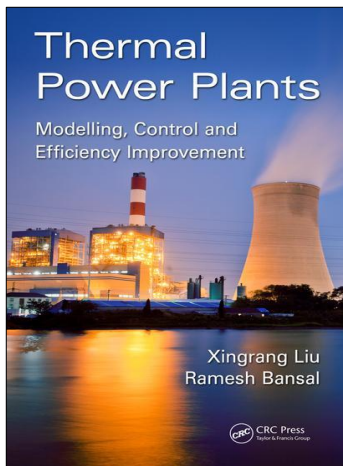


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**TAJUK** : Thermal Power Plants**PENGARANG** : Xingrang Liu

ABSTRAK : Thermal Power Plants: Modeling, Control, and Efficiency Improvement explains how to solve highly complex industry problems regarding identification, control, and optimization through integrating conventional technologies, such as modern control technology, computational intelligence-based multiobjective identification and optimization, distributed computing, and cloud computing with computational fluid dynamics (CFD) technology. Introducing innovative methods utilized in industrial applications, explored in scientific research, and taught at leading academic universities, this book:

Discusses thermal power plant processes and process modeling, energy conservation, performance audits, efficiency improvement modeling, and efficiency optimization supported by high-performance computing integrated with cloud computing. Shows how to simulate fossil fuel power plant real-time processes, including boiler, turbine, and generator systems.

Provides downloadable source codes for use in CORBA C++, MATLAB®, Simulink®, VisSim, Comsol, ANSYS, and ANSYS Fluent modeling software.

Although the projects in the text focus on industry automation in electrical power engineering, the methods can be applied in other industries, such as concrete and steel production for real-time process identification, control, and optimization.

Instructors

We provide complimentary e-inspection copies of primary textbooks to instructors considering our books for course adoption.

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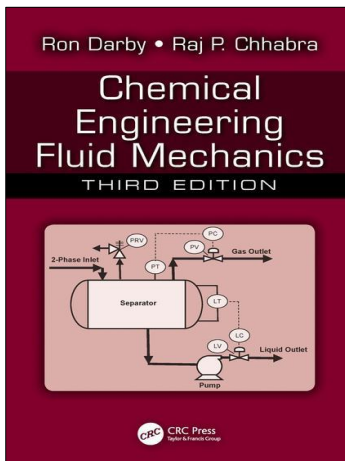


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**TAJUK** : Chemical Engineering Fluid Mechanics**PENGARANG** : Ron Darby**ABSTRAK** : Covers the most current, accurate, and practical fluid mechanics related applications that the practicing BS level engineer needs today in the chemical and related industries

- Provides a fundamental understanding of these applications based upon sound fundamental basic scientific principles.
- Adds worked-out problems illustrating the application of concepts in each chapter.
- Includes SI units.
- Sharpens the presentation of material by reorganizing the existing material, adding new material, or by adding an illustrative example to demonstrate the utility of a concept.

Summary

This book provides readers with the most current, accurate, and practical fluid mechanics related applications that the practicing BS level engineer needs today in the chemical and related industries, in addition to a fundamental understanding of these applications based upon sound fundamental basic scientific principles. The emphasis remains on problem solving, and the new edition includes many more examples.

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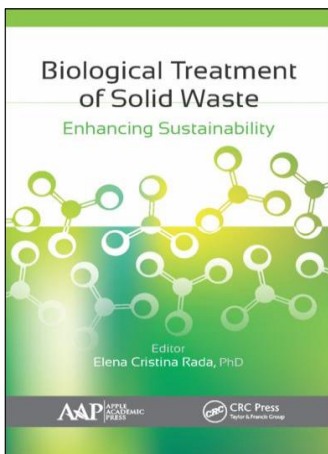


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**TAJUK** : Biological Treatment of Solid Waste**PENGARANG** : Elena C. Rada

ABSTRAK : This title includes a number of Open Access chapters. Intended for a wide audience ranging from engineers and academics to decision-makers in both the public and private sectors, Biological Treatment of Solid Waste: Enhancing Sustainability reviews several technologies that help communities manage solid waste sustainably, while at the same time generating energy, revenue, and other resources.

The book is divided into three topics:

- ✓ Microbial technologies for solid waste treatment
- ✓ Composting
- ✓ Biodrying

Included within these larger topics are case studies and investigations into particular aspects of each, with attention paid to food waste, animal waste, municipal waste, and certain forms of industrial waste. The editor is an environmental engineer with an international reputation, and she has included her own research studies as well as that of her colleagues, many of which have been presented at international waste management conferences. She concludes that our world can no longer afford to consider waste as something that can be discarded with no regard for future use. Instead, if addressed correctly through policy and practice, solid waste can become a valuable resource.

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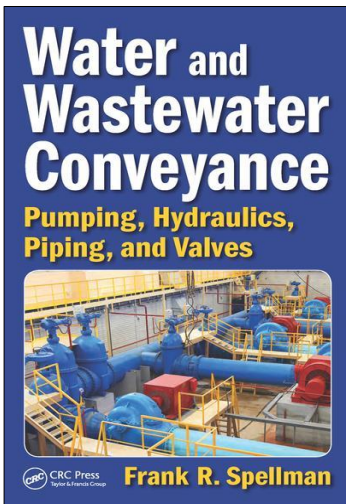


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**TAJUK** : Water and Wastewater Conveyance**PENGARANG** : Frank R. Spellman

ABSTRAK : Presents practical, basic information on all manner of water conveyance in water and wastewater plants, such as hydraulics, piping systems, tubes, hoses, and valves. Examines pump operation fundamentals and practical applications, as well as various types, such as centrifugal, submersible, vortex, impeller, turbine, and more. Covers the basic of water hydraulics concepts, including force and pressure, flow and discharge rate, and velocity head. Covers relevant water plant equipment, maintenance regimens, as well as troubleshooting procedures for each. Contains definitions of key terms and self-examination questions at the end of each chapter.

Water and Wastewater Conveyance: Pumping, Hydraulics, Piping, and Valves provides fundamental, basic information on the conveyance of water and wastewater. Written in straight-forward and easy-to-understand language for professionals and non-professionals alike, it provides the techniques to assist water and wastewater operators to better understand basic pump operations and applications, maintenance regimens, and troubleshooting procedures. Addressing a multitude of water quality issues, it provides an introduction to water hydraulics, piping systems, tubes, hoses, and ancillaries as well as valves, and the maintenance requirements of each. It also discusses common operational problems and their appropriate corrective actions. Definitions of key terms and self-examination questions are provided at the end of each chapter.

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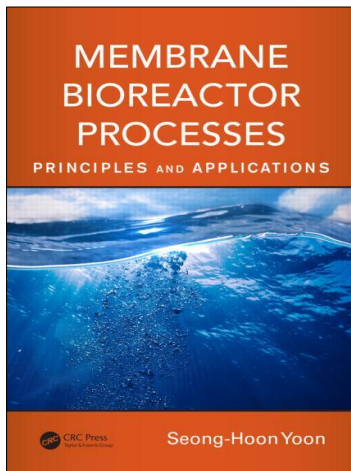
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**TAJUK** : Membrane Bioreactor Processes**PENGARANG** : Seong-Hoon Yoon

ABSTRAK : Grasp the Essential Principles of Membrane Bioreactor Processes. Evolved from the conventional activated sludge (CAS) process, membrane bioreactor (MBR) processes have become the next-generation solution for municipal and industrial wastewater treatment and recycle. Membrane Bioreactor Processes: Principles and Applications explores nearly all the theoretical and practical aspects of membrane bioreactor technologies. Using the author's expertise obtained from academia and industry, this book provides the crucial details on MBR technology that that you need to know. The book details the theoretical and practical backgrounds of current practices involved with membrane module design, biological and membrane system design, system optimization, and system operation.

The text discusses the fundamentals of membrane filtration, emphasizing the principles of submerged membrane filtration. It also explores the complex interaction among key design and operating parameters, offers comprehensive explanations on the interconnectivity between biological and membrane systems, and covers new findings discovered in recent years. This book clearly explains how small-scale systems perform differently from larger-scale systems and its implications in data interpretation. Using this book as a platform, the technology can be developed further and quickly applied in future processes.

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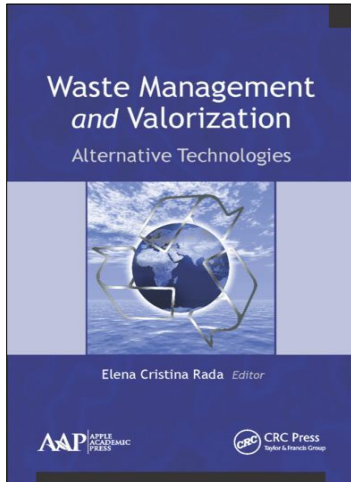


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**TAJUK** : Waste Management and Valorization**PENGARANG** : Elena Cristina Rada

ABSTRAK : Edited by a leading researcher in the field, this book provides an overview of waste valorization and includes the editor's research in addition to other experts and recent and relevant studies on this critical topic. It covers treatment and pretreatment technologies and methodologies, energy recovery from solid wastes, recycling and reuse, additional cutting-edge valorization methodologies. Primarily aimed at researchers and advanced students in biochemical, engineering, and environmental fields, this book should also provide a valuable reference for municipal legislators and industry practitioner

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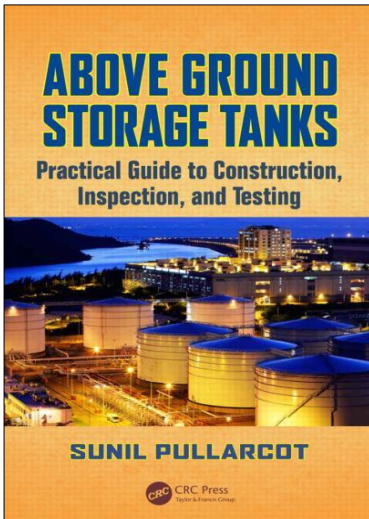


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**TAJUK** : Above Ground Storage Tanks**PENGARANG** : Sunil Pullarcot

ABSTRAK : Above Ground Storage Tanks: Practical Guide to Construction, Inspection, and Testing is an ideal guide for engineers involved in the mechanical construction of above ground storage tanks. This text details the construction of storage tanks in accordance with the American Petroleum Institute requirements for API 650, and is the first book to cover every stage subsequent to the design of storage tanks. The author focuses on the mechanical construction, inspection, and testing of storage tanks and all aspects on-site after design, and explains the relevance of code requirements. In addition, he incorporates real-world applications based on his own experience, and provides a host of practical tips, useful in avoiding repair and reworks during construction of storage tanks.

Presents material compiled according to the requirements of API 650 for the construction of storage tanks. Includes coverage of the practical aspects of tank farm layout, design, foundation, erection, welding, inspection and testing. Explains the details of construction /welding sequences and NDT with simple sketches and tables. Spells out applicable codes and specifications, and provides logical explanations of various code requirements.

A reference for beginners and practitioners in the construction industry, Above Ground Storage Tanks: Practical Guide to Construction, Inspection, and Testing contains valuable information on API 650 code requirements and specifications, and the construction of above ground storage tanks.

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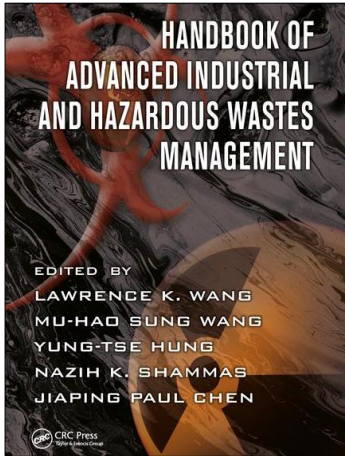


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TAJUK : Handbook of Advanced Industrial and Hazardous Wastes Management

PENGARANG : Lawrence Wang

ABSTRAK : Provides all the necessary technical information on industrial and hazardous waste treatment, and will comprise the best available reference set in the fields of chemical and environmental engineering, pertaining to the remediation of contaminated industrial sites, and their associated wastes. Includes coverage of numerous types of commercial wastes, including oil refining; electronics, chemical, textile manufacturing; agricultural, and more

Provides broad coverage of both basic and advanced principals and applications. Offers remediation processes for both soil and water contamination. Presents information on the remediation of brownfield industrial sites.

This volume provides in-depth coverage of environmental pollution sources, waste characteristics, control technologies, management strategies, facility innovations, process alternatives, costs, case histories, effluent standards, and future trends in waste treatment processes. It delineates methodologies, technologies, and the regional and global effects of important pollution control practices. It focuses on specific industrial and manufacturing wastes and their remediation. Topics include: heavy metals, electronics, chemical, and textile manufacturing

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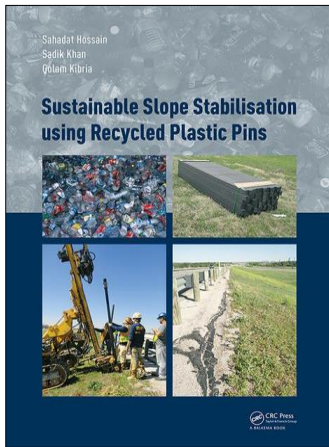


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TAJUK : Sustainable Slope Stabilisation Using Recycled Plastic Pins

PENGARANG : Sahadat Hossain

ABSTRAK : Landslides and slope failure are common in the US and rest of the world. The landslides cause significant damage to infrastructure and millions of dollars are required each year to fix the slope. A sustainable and cost-effective option to stabilise the slope can have significant benefits, as it will reduce the cost of maintenance and when using recycled pins, it may help the environment at the same time.

The recycled plastic pin is made from recycled plastic bottles and other plastic waste. Several demonstration projects already proved the effectiveness of RPP as an alternative option to fix slope failure, with a maximum failure depth of 7-8 ft. In this book, every detail of the slope stabilisation technique using recycled plastic pins, including the design techniques and several case studies, are included. This will help to explain the basics of this important technique and will be used as reference to design the slope stabilisation scheme using recycled plastic pins.

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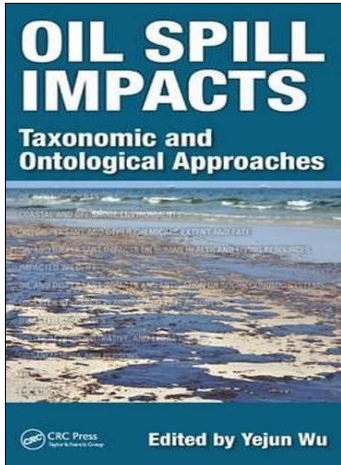


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TAJUK : Oil Spill Impacts: Taxonomic and Ontological Approaches

PENGARANG : Yejun Wu

ABSTRAK : Starting with the 2010 Gulf of Mexico Deepwater Horizon oil spill incident, Oil Spill Impacts: Taxonomic and Ontological Approaches chronicles a timeline of events that focus on the impact of oil spills and provides an understanding of these incidents using a number of approaches. The book includes an interdisciplinary oil spill taxonomy, an oil spill topic map, and highlights information–organization tools, such as indexes, taxonomies, and topic maps that can be used to connect information resources with concepts of interest.

The topic map combines the function of ontology with the function of organized information resources, and contains thousands of concepts and their relationships extracted from approximately 300 documents stemming from various academic conference presentations, journal articles, news reports, and web pages.

Divided into four parts, the book begins with a brief introduction of the Gulf of Mexico Deepwater Horizon oil spill events followed by a breakdown of the taxonomy concepts distributed into categories and their subcategories. The book then describes the oil spill topic map separated by concepts, relationships, and references.

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