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Perpustakaan EiMAS

02 Oktober 2019



NEW BOOKS!

- 1) Air Pollution Control engineering for Environmental Engineers
- 2) Air Quality
- 3) Anaerobic Waste-Wastewater Treatment and Biogas Plants
- 4) Air Pollution Control Operations and Strategies
- 5) Qgis and Generic Tools
- 6) Metals in Wastes
- 7) Water, Wastewater, and Stormwater Infrastructure Management
- 8) Fundamentals of Environment Site Assessment and Remediation
- 9) Environmental Engineering
- 10) Environmental Protection and Management
- 11) Use of Recycling Water
- 12) Water Purification Techniques Handbook
- 13) Environment, Tenth Asia Edition
- 14) Introduction to Mathematical Methods For Environmental Engineers and Scientists
- 15) Biological Toxicology
- 16) Emerging Contaminants Handbook
- 17) Environmental Performance Auditing in the Public Sector
- 18) Big Data in Practice: How 45 Successful Companies Used Big Data Analytics to Deliver Extraordinary Results
- 19) Presenting Data Effectively: Communicating Your Findings for Maximum Impact Second Edition



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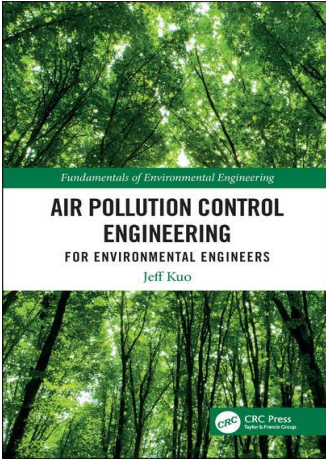


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TAJUK : Air Pollution Control engineering for Environmental Engineers

PENGARANG : Jeff Kuo

ABSTRAK : A concise yet comprehensive book that can be read and used from cover to cover, presenting topics that are fundamental for environmental engineering students, engineers, and professionals in the fields of air pollution control engineering and management. Air Pollution Control Engineering for Environmental Engineers covers topics including regulatory approaches to managing air pollution, emissions calculations, and control technologies for various air pollutants. This textbook also presents practical and contemporary issues, such as fugitive component leak detection and repair (LDAR). Subjects in the specifications of Fundamentals of Engineering (FE) and Professional Engineering (PE) exams are embedded in this book. Filled with real-world engineering design and calculation examples, the reader's understanding and common sense needed for air pollution control and management will be enhanced.

Table of Contents

Air Pollution and Air Pollutants. Regulatory Approaches to Solving Air Pollution Problems. Combustion and Combustion Calculations. Emission Calculation Basic Principles. Emission Factors and Emissions Inventory. Emission Sampling and Monitoring. Atmospheric Dispersion and Meteorology. Emission Capturing Systems. Reduction of Particulates Emissions. Reduction of SOx Emissions. Reduction of NOx Emissions. Reduction of VOC Emissions. Reduction of CO Emissions. Reduction of Toxic and other HAP Emissions. Landfill Gas Management and Control. Odor Management and Control. Leak Detection and Repair of Fugitive Emissions Components. Greenhouse Gas Emissions and Control. Indoor Air Pollution and Control. Index.



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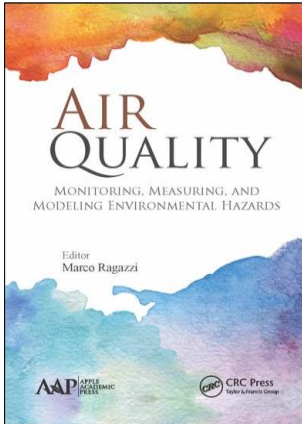


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**TAJUK** : Air Quality**PENGARANG** : Marco Ragazzi

ABSTRAK : This new compendium provides a nuanced look at monitoring, measuring, and modeling air quality pollution in conjunction with its effects on public health and the environment. Air pollution has been proven to be a major environmental risk to health. Protecting and improving air quality requires knowledge about the types and levels of pollutants being emitted. It also requires the best possible measurement and monitoring capabilities. The chapters in this volume serve as a foundation for monitoring, measuring, and modeling air pollution.



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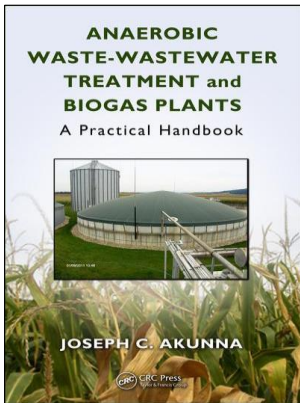


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TAJUK : Anaerobic Waste-Wastewater Treatment and Biogas Plants: A Practical Handbook

PENGARANG : Joseph C. Akunna

ABSTRAK : The book guides specialists and non-specialists from around the world on how or whether anaerobic processes can be part of solutions for the management of municipal and industrial solid, semi-solid, and liquid residues. The simple self-learning presentation style is designed to encourage deep understanding of the process principles, plant types and system configurations, performance capabilities, operational and maintenance requirements, post-treatment needs, and management options for coproducts without complex biochemical terminologies and equations.

It describes key aerobic biological treatment processes used in conjunction with anaerobic biological treatment in feedstock pre-treatment and in post-treatment of by-products. Practical pre-treatment processes, techniques and operations are described alongside additional treatment techniques of biogas, digestates and treated effluents for various end use options. Effective applications in developing countries are also considered, enabling practitioners and plant operators to effectively apply technology in temperate and warm climatic conditions.

Table of Contents

Preface. Biological Treatment Processes. Anaerobic Wastewater Treatment. Anaerobic Digestion of Organic Solid Residues and Biosolids. Pre-Treatment in Anaerobic Treatment. Post-Treatment, Reuse and Management of Co-Products. Application in Warm Climates and Developing Countries. Case Studies. References. Appendices.



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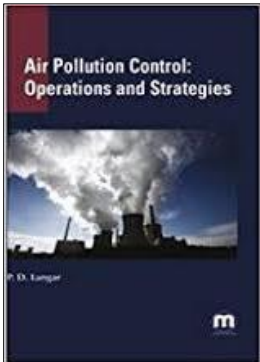


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TAJUK : Air Pollution Control Operations and Strategies

PENGARANG : P.D. Langar

ABSTRAK : Today, air pollution has emerged as a global public health problem. This book aims to understand the innovation activity in the technology domain and the different ways to observe patterns in relation to diffusion of innovation in different jurisdictions. It emphasizes on prominent air pollution control measures and innovative technology and R&D practices. It highlights various industry technologies for protection and exploitation of developed technologies. Suggestions for future adopted technologies for air pollution control is also suggested.



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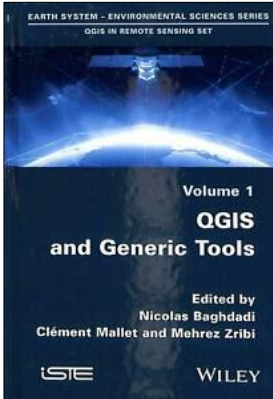


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**TAJUK** : QGIS and Generic Tools**PENGARANG** : Nicolas Baghdadi

ABSTRAK : These four volumes present innovative thematic applications implemented using the open source software QGIS. These are applications that use remote sensing over continental surfaces. The volumes detail applications of remote sensing over continental surfaces, with a first one discussing applications for agriculture. A second one presents applications for forest, a third presents applications for the continental hydrology, and finally the last volume details applications for environment and risk issues.

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Chapter 6. Online Publication of a Land Cover Map Using LizMap 243



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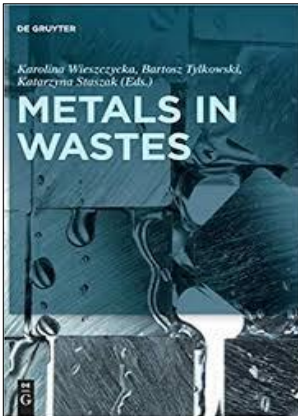


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**TAJUK** : Metals in Wastes**PENGARANG** : Karolina Wieszczycka, Bartosz Tylkowski

ABSTRAK : Metals in Wastes are an excellent guide for scientist, students, engineers, chemists, and industrial chemists who are looking for knowledge of the main sources of metals in industrial wastes. Metals are valuable materials that can be recycled again and again without degrading their properties. The recycling of metals enables us to preserve natural resources while requiring less energy to process than the manufacture of new products using virgin raw materials. A team of experts reviews the state-of-the-art and provides the readers not only with a comprehensive in-depth overview of the main composition of wastes but also discloses innovative methods which have been applied for recovery of critical and valuable metals in petrochemical industry, rubber, energy and automotive industries. This know-how could be considered as a useful reference tool for moving towards the zero-waste company. Additionally, the book describes the economic aspects of metals recovery from various sources. This is essential for those already involved in the metals business and also for the financial, investment and advisory community internationally.



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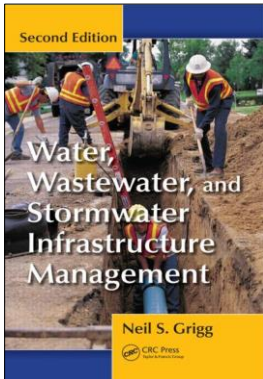


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**TAJUK** : Water, Wastewater, and Stormwater Infrastructure Management**PENGARANG** : Neil S. Grigg

ABSTRAK : Urban water services are building blocks for healthy cities, and they require complex and expensive infrastructure systems. Most of the infrastructure is out of sight and tends to be taken for granted, but an infrastructure financing crisis looms in the United States because the systems are aging and falling behind on maintenance. A road map for public works and utility professionals, *Water, Wastewater, and Stormwater Infrastructure Management, Second Edition* provides clear and practical guidance for life-cycle management of water infrastructure systems.

Grounded in solid engineering and business principles, the book explains how to plan, budget, design, construct, and manage the physical infrastructure of urban water systems. It blends knowledge from management fields such as facilities, finance, and maintenance with information about the unique technical attributes of water, wastewater, and stormwater systems.

Addresses how to make a business case for infrastructure funding

Demonstrates how to apply up-to-date methods for capital improvement planning and budgeting

Outlines the latest developments in infrastructure asset management

Identifies cutting-edge developments in information technology applied to infrastructure management

Presents a realistic view of how risk management is applied to urban water infrastructure settings

Explains the latest maintenance and operations methods for water, wastewater, and stormwater systems



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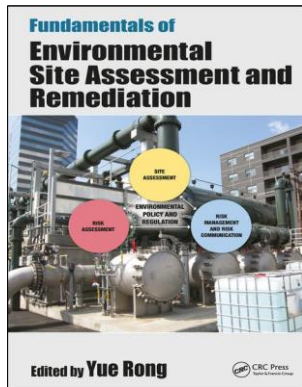


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**TAJUK** : Fundamentals of Environmental Site Assessment and Remediation**PENGARANG** : Yue Rong

ABSTRAK : Fundamentals of Environmental Site Assessment and Remediation examines all aspects of environmental site assessment and remediation and outlines the interdisciplinary skills needed to work in the field. It provides a comprehensive overview for students, environmental professionals, and real estate developers, and includes the latest environmental regulations, environmental site assessment and remediation practices, and industry standards. It examines pollution sources and the related impacts on drinking water supplies, the associated health risks, and how to protect water resources. The monitoring of surface water, groundwater, and soil is explained, as well as vapor intrusion. It will include several practical case studies throughout.



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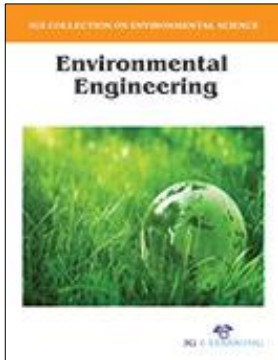


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**TAJUK** : 3GE Collection on Environmental Science: Environmental Engineering**PENGARANG** :**ABSTRAK** This book provides an introductory approach that focuses on the basics of this growing field, including the important aspects of water, air and noise pollution.

Environmental Engineering protects the conditions of a safe environment, its role being crucial in eliminating ecological threats. The area of air quality monitoring, modelling, exposure, health and control, and can be of great help to graduate students professionals and researchers. The book deals with various monitoring techniques of air pollutants, their predictions and control. The level of surface water quality protection is variable around the world in large part due to the relative effectiveness of environmental regulation and the degree to which science influences the regulatory process. This book also provides a rational framework for estimating the assimilative capacity of the receiving water body for certain contaminants and applying factors of safety and incorporating acceptable levels of water quality criteria violation in the decision making process. The adverse impacts from excess noise on human health and daily activities have accelerated at an alarming rate over the last few decades. This has prompted significant attention into noise attenuation and mitigation of these unwanted effects. The book provides the most up-to-date information on in the field of noise pollution and its control. Besides students, the book will be useful to the academia of environmental sciences, civil/environmental engineering as well as to environmentalists and administrators working in the field of pollution control.



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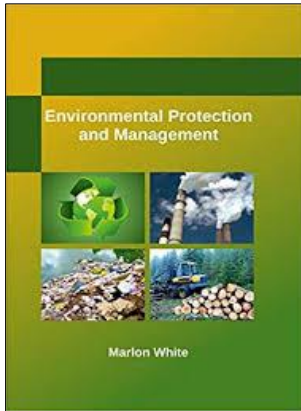


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**TAJUK** : Environmental Protection and Management**PENGARANG** : Marlon White

ABSTRAK : Growing population has led to many different problems in today's world, worst of all being pollution. Environment is being damaged every day because of the actions of human beings and thus, its protection and preservation has become vital. Environmental protection and management is the field, which deals with study of laws, rules, scientific solutions, etc. required to conserve our environment and save its inhabitants. This book provides information about the most basic to the most complex topics related to this field. Some of the diverse topics covered in it address the varied branches that fall under this category. The textbook is appropriate for those seeking detailed information in this area.



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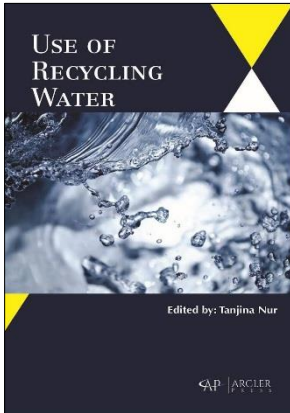


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**TAJUK** : Use of Recycling Water**PENGARANG** : Tanjina Nur**ABSTRAK** : This timely book brings together original contributions and some relevant publications in order to provide state-of-art information on the use of wastewater. It illustrates the benefits of water reuse in integrated water resources management and its role for water cycle management, climate change adaptation and water in the cities of the future

It will be an invaluable information source for all those concerned with water reuse including water utility managers, wastewater policy makers and water resources planners as well as researchers and students in environmental science



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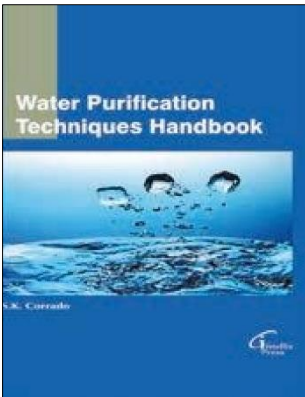


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**TAJUK** : Water Purification Techniques Handbook**PENGARANG** : S.K Corrado

ABSTRAK : As concerns increase over the scarcity of water resources and the role of anthropogenic activities, water quality is increasingly important. This work covers a number of water quality issues relevant to either improving the existing treatment methods or to new advanced approaches. It consists of contributions by authors in various water-related fields, delves into some approaches that are used to understand and/or to improve water quality, and these include assessment of water chemistry, biomonitoring, modelling and water treatment.



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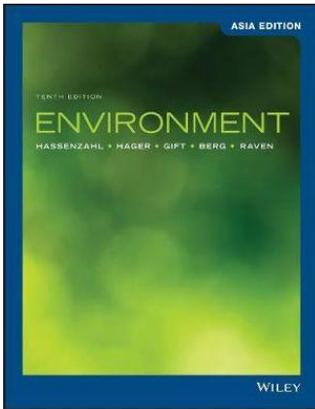


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**TAJUK** : Environment, tenth Asia edition**PENGARANG** : Raven

ABSTRAK : A focus on Systems and Sustainability highlights the various aspects of the environment interact, and how changes in one part of the environment might affect other processes, places and organisms. Understanding this is essential to managing existing problems, avoiding future problems and improving the World we live in.

Well-developed extensive pedagogy offers a clear way for students to move from general concepts to applications of key concepts.

In Your Own Backyard feature provides a critical thinking question at the beginning of each chapter and connects the broad themes of the text to local issues and resources students can investigate.

Critical Thinking and Review Questions, many new to this edition, encourage critical thinking and highlight important concepts and applications. At least one question in each chapter provides a systems perspective; another question relates climate and energy to the chapter. Visual questions have been added To each chapter.



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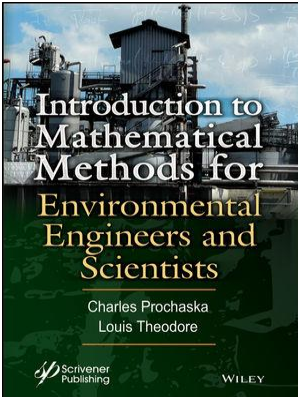


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**TAJUK** : Introduction To Mathematical Methods For Environmental Engineers and Scientists**PENGARANG** : Charles Prochaska

ABSTRAK : The material in this book attempts to address mathematical calculations common to both the environmental science and engineering professionals. The book provides the reader with nearly 100 solved illustrative examples. The interrelationship between both theory and applications is emphasized in nearly all of the 35 chapters. One key feature of this book is that the solutions to the problems are presented in a stand-alone manner. Throughout the book, the illustrative examples are laid out in such a way as to develop the reader's technical understanding of the subject in question, with more difficult examples located at or near the end of each set. In presenting the text material, the authors have stressed the pragmatic approach in the application of mathematical tools to assist the reader in grasping the role of mathematical skills in environmental problem-solving situations. The book is divided up into five (V) parts: Introduction Analytical Analysis Numerical Analysis Statistical Analysis Optimization



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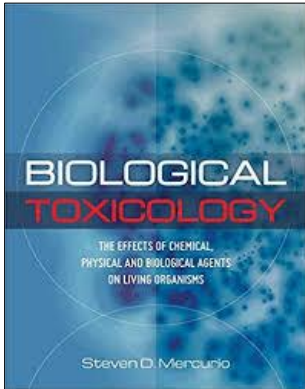


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**TAJUK** : Biological Toxicology**PENGARANG** : Steven Mercurio

ABSTRAK : Understanding Toxicology is a comprehensive study of toxicants and their impact on all levels of biology--from cell, to complex organism, to ecosystem. Unlike other texts of its kind, this text is uniquely structured by biological system, making it easy for readers to understand the impact of toxins on each system. Common mechanisms are explored in the cellular and complex organ system chapters to approach a systems biology perspective that is more applicable to modern computational toxicology risk assessment.

Understanding Toxicology begins with three research questions that challenge the reader to discover what information is needed to solve controversies at the level of the cell, the complex organism, and the ecosystem. The book continues with a cellular, complex organism, and ecosystem analysis of toxicology principles including risk assessment. The cellular section follows common mechanisms from the outside to the inside of cells and individual organelles. A forensic approach analyzes complex organisms from outside to inside. The ecosystem section starts with a dispersion approach to determine environmental concentration and addresses toxicants in divisions similar to how the EPA determines impacts.



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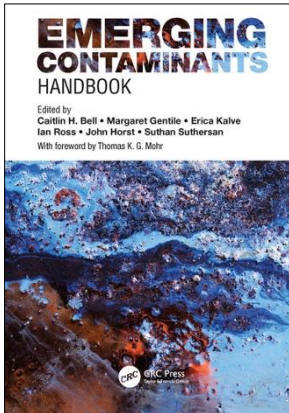


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**TAJUK** : Emerging Contaminants Handbook**PENGARANG** : Caitlin H. Bell

ABSTRAK : The term "emerging contaminants" and its multiple variants has come to refer to unregulated compounds discovered in the environment that are also found to represent a potential threat to human and ecological receptors. Such contaminants create unique and considerable challenges as the push to address them typically outpaces the understanding of their toxicity, their need for regulation, their occurrence, and techniques for treating the environmental media they affect.

With these challenges in mind, this handbook serves as a primer regarding the topic of emerging contaminants, with current and practical information to help support the goal of protection where they are encountered.



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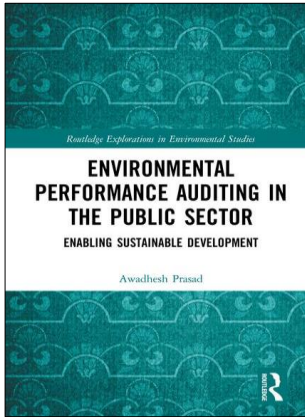


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**TAJUK** : Environmental Performance Auditing in The Public Sector**PENGARANG** : Awadhesh Prasad

ABSTRAK : Environment and sustainable development challenges are a matter of global concern. Trillions of dollars of mostly public money are invested every year in domestic and international policies and programs to address these challenges. The effectiveness of these policies and programs is critical to environmental sustainability. Performance audits that examine the effectiveness of governmental policies and programs heavily influence their implementation. Despite this, performance auditing in the environment field has received very little academic attention.

This book takes a closer look at performance auditing of public sector environmental policies and programs. It examines trends in global environmental performance auditing; and how it is currently practiced drawing on a global survey and case studies from Canada, India and Australia. In doing so, it identifies issues and challenges faced by Supreme Audit Institutions in undertaking these performance audits.

This book will be of interest to students, scholars and practitioners of sustainable development, environmental auditing and public sector auditing as well as to donor organisations engaged in these areas.



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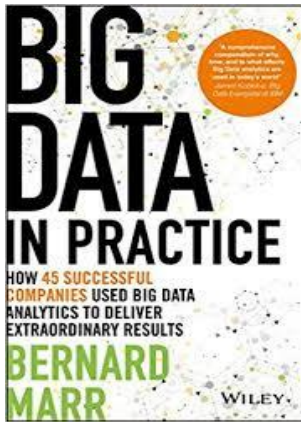


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TAJUK : Big Data in Practice: How 45 Successful Companies used Big Data Analytics to Deliver Extraordinary Results

PENGARANG : Bernard Marr

ABSTRAK : All cases will be based on the author's direct insights with the companies listed - these are all organisations which he has either consulted for or been granted access to direct interviews, and have endorsed their inclusion in the book. All chapters will follow a similar structure so that the reader can scan the various sections to quickly find the information they are after. Chapter structure: Background A brief overview of the company and context of the case study What Problem Is Big Data Helping To Solve? A description of what business problem / or issues big data is helping to solve in this case study company. How Is Big Data Used In Practice? An outline of how big data was applied in this case example. Outlining the implementation, where the data came from, how it was analysed, what algorithms were developed. What Where The Results? A description of the benefits / insights gained and the value of these. What Data Was Used? A description of what data was used (external, internal, quantities, structured, unstructured, sources) What Are The Technical Details? A description of the technical details - e.g. where was the data stored (cloud, hadoop clusters, data lakes) and what where the specifics (programming languages such as Spark or Python) and vendor details.



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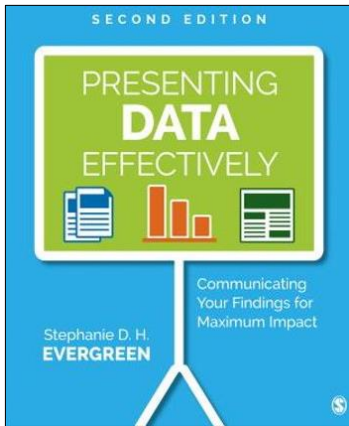


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TAJUK : **Presenting Data Effectively: Communicating Your Findings for Maximum Impact Second Edition**

PENGARANG : **Stephanie Evergreen**

ABSTRAK : Now in striking full color, *Presenting Data Effectively, Second Edition* by Stephanie D. H. Evergreen shows readers how to make the research results presented in reports, slideshows, dashboards, posters, and data visualizations more interesting, engaging, and impactful. The book guides students, researchers, evaluators, and non-profit workers--anyone reporting data to an outside audience--through design choices in four primary areas: graphics, text, color, and arrangement. The Second Edition features an improved layout with larger screenshots, a review of the recent literature on data visualization, and input from a panel of graphic design experts.



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