

# BUKU BAHARU OGOS 2024



PERPUSTAKAAN LINGKUNGAN KEDUA



**Title** : Ilustrasi Ringkas Analisa Tematik (AT) Menggunakan Perisian ATLAS.Ti 8  
**Author** : Mohd Zairul Mohd Noor  
**ISBN** : 9789672989578  
**Publisher** : UPM Press  
**Year** : 2021

**Abstract:**

Penghasilan buku Analisa tematik di dalam Bahasa Melayu ini merupakan sesuatu yang baharu di dalam kajian kualitatif di Malaysia. Ia mengambil pendekatan interpretivisma di dalam paradigma kajian. Secara epistemologinya buku ini menekankan kepelbagaian realiti di dalam mencari kebenaran. Dengan bantuan ATLAS.ti, penulis memberi inovasi dalam proses membuat kod dan pencarian tema akhir dengan menggunakan Thematic Analysis Matrix (TAM) bagi memudahkan penyelidikan kualitatif melaporkan kajian kualitatif mereka di dalam format yang mudah difahami dan sistematik. Buku ini diharap dapat membantu penyelidik kajian kualitatif bagi menghasilkan kajian kualitatif yang lebih berkualiti pada masa hadapan.



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**Title** : Soal Jawab Pengurusan Bahan Kimia Berbahaya Di Tempat Kerja Anda  
**Author** : Sharifah Norkhadijah Syed Ismail  
**ISBN** : 9789673449866  
**Publisher** : UPM Press  
**Year** : 2021

**Abstract:**

Pendedahan kepada bahan kimia di tempat kerja boleh menyebabkan kesan kesihatan yang kronik. Bahan kimia berbahaya adalah bersifat toksik dan karsinogen yang boleh merosakkan tisu saraf, memberi kesan kepada sistem imunisasi, merosakkan kulit, penyebab kanser, memberi kesan kepada sistem pembiakan manusia dan agen kimia yang boleh menghasilkan kesan toksin sistemik kepada seluruh organ badan. Oleh itu, pengurusan bahan kimia berbahaya di tempat kerja amat penting bagi mengurangkan risiko pendedahan dan kesannya kepada kesihatan. Buku Soal Jawab Pengurusan Bahan Kimia di Tempat Kerja ini ditulis dengan panduan pengurusan yang terkini serta mengambil kira sistem perundangan sedia ada. Buku ini memberi panduan dan menambah pengetahuan kepada umum dalam konteks mengurangkan risiko kecederaan dan kemalangan ketika bekerja dengan bahan kimia berbahaya. Buku ini juga dapat mencetuskan kesedaran kepada para pembaca agar berperanan dengan lebih aktif dan berkesan dalam melindungi diri dari bahaya pendedahan bahan kimia terhadap alam sekitar dan diri sendiri.



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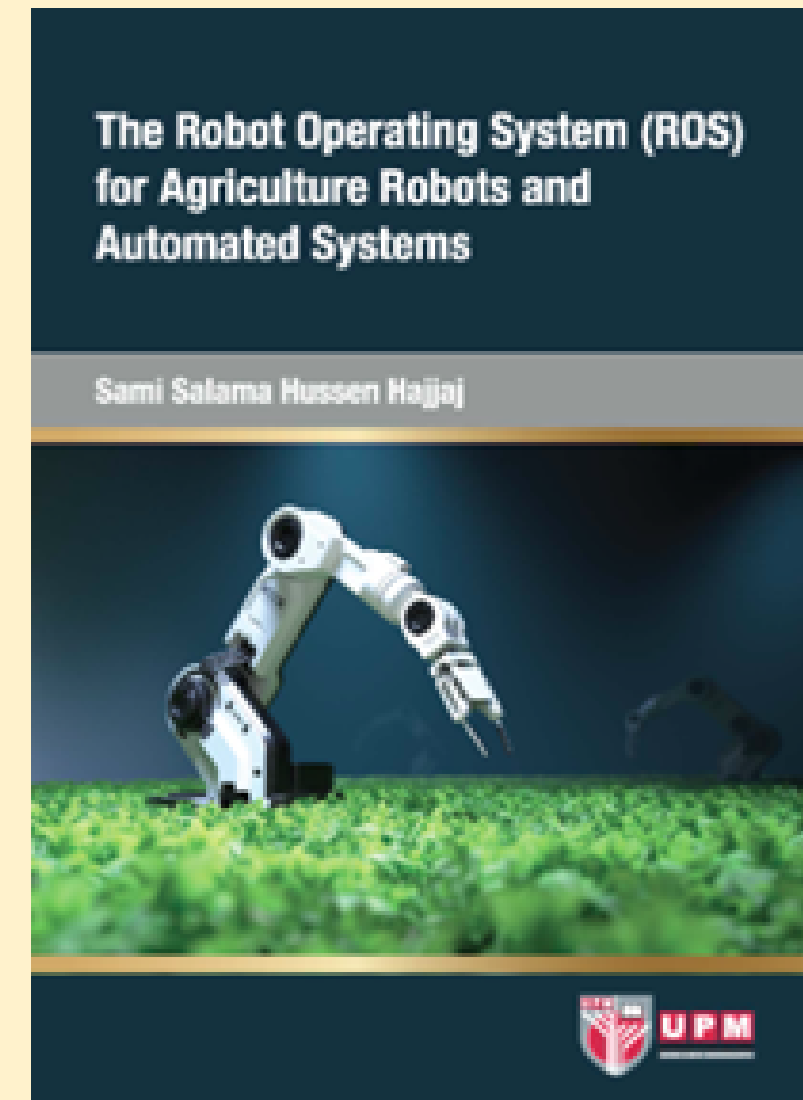


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**Title** : The Robot Operating System (ROS) For Agriculture Robots And Automated Systems  
**Author** : Sami Salama Hussen Hajjaj  
**ISBN** : 9789670035116  
**Publisher** : UPM Press  
**Year** : 2022

**Abstract:**

The Robots Operating System (ROS) is one of the fastest-growing open-source platforms for Robot system development. However, ROS is limited to indoor robot applications. As such, outdoor robot applications such as open-field agriculture, search & rescue, ect, cannot benefit from ROS. This book investigates the reasons behind this and presents a solution. The book first introduces ROS and the role it can play for Agriculture, then it explains the technical reasons why ROS is limited to indoor applications. It then presents a set solutions and additions to update ROS and expand its reach to Agriculture automation and other outdoor robot applications.



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**Title** : Projek Pemerkasaan Komuniti Berteraskan Alam Sekitar  
**Editors** : Latifah Abd Manaf  
**ISBN** : 9789670035338  
**Publisher** : UPM Press  
**Year** : 2022

**Abstract:**

Buku Projek Pemerkasaan Komuniti Berasaskan Alam Sekitar ditulis berdasarkan pengalaman ahli akademik yang terlibat secara langsung dalam menjayakan projek pemindahan ilmu bersama kelompok komuniti yang berbeza. Pelbagai pendekatan pemindahan ilmu yang dilaksanakan bagi mencapai objektif yang disasarkan. Pendekatan yang dipilih bergantung kepada kelompok sasaran komuniti di mana pendekatan bagi projek bersama orang awam adalah berbeza dengan pelajar sekolah bagi memastikan ilmu yang dipindahkan mampu dicerna dan diamalkan. Semoga buku ini dapat mencetuskan lebih banyak idea dalam memastikan projek pemindahan ilmu dikembangkan luas dalam usaha menjadikan komuniti Malaysia berilmu tinggi khususnya dalam melindungi alam sekitar.



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**Title** : Advances In Sustainable Manufacturing (A Catalyst For Processes And Systems For Next Generation Manufacturing)  
**Editors** : M.Uthayakumar, S.Bathrinath, Mohamed Thariq Hameed Sultan, Adam Slota, M.B. Nidhi  
**ISBN** : 9789670035765  
**Publisher** : UPM Press  
**Year** : 2022

**Abstract:**

Advances in sustainable manufacturing are based on six different elements which are reduce, redesign, reuse, recover, remanufacturing, and recycle. Over the last few decades, the issue on sustainability has shown substantial growth and become the essential areas in many engineering and industrial applications. Although the growth is there, there are still a gap that can be seen between the theory and practice when it arrives at the holistically integrating sustainability. The present book covered recent advances in sustainable manufacturing and topics are centred on artificial intelligence based on sustainable manufacturing, practice of artificial intelligence in welding and additive manufacturing, biomachining of *Acidithiobacillus ferrooxidans* microorganisms with titanium by using powder metallurgy, and many more interesting chapters. We have gathered many well experienced authors all around the world to contribute their knowledge in this book.



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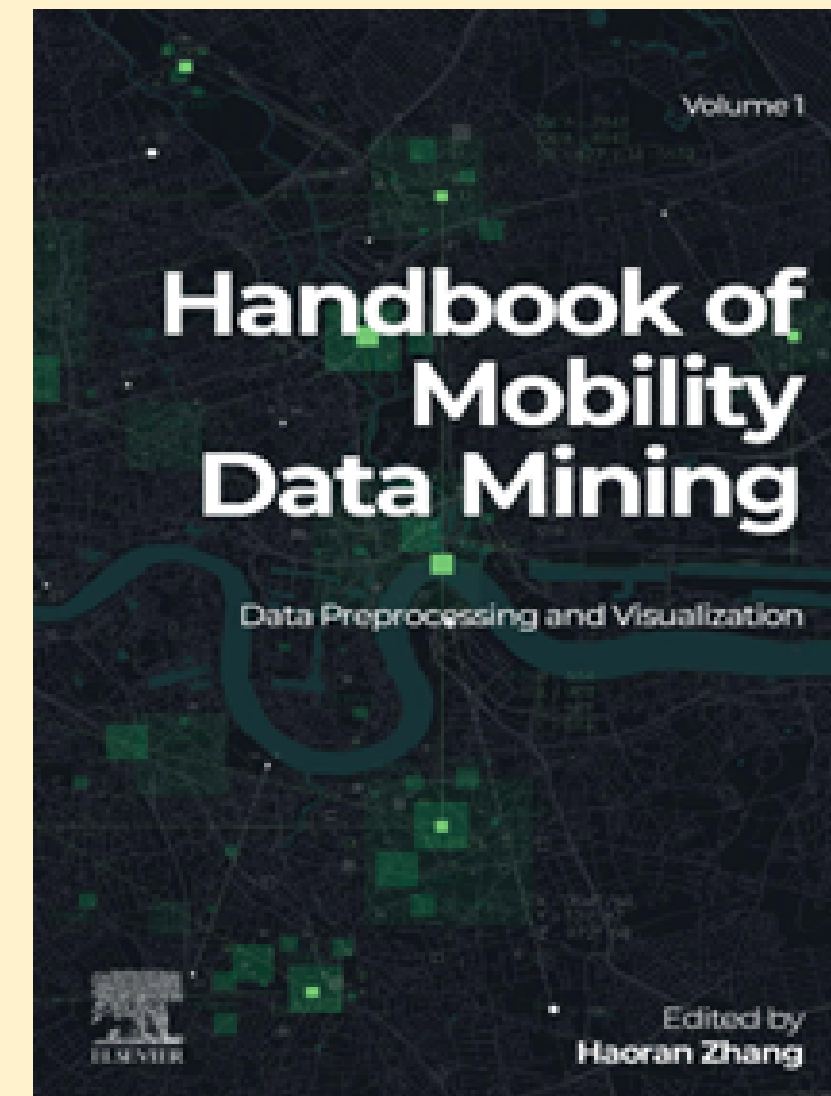
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**Title** : Handbook of Mobility Data Mining Data Preprocessing and Visualization ·  
Volume 1  
**Editors** : Haoran Zhang  
**ISBN** : 9780443184284  
**Publisher** : Elsevier  
**Year** : 2023

**Abstract:**

Handbook of Mobility Data Mining, Volume One: Data Preprocessing and Visualization introduces the fundamental technologies of mobile big data mining (MDM), advanced AI methods, and upper-level applications, helping readers comprehensively understand MDM with a bottom-up approach. The book explains how to preprocess mobile big data, visualize urban mobility, simulate and predict human travel behavior, and assess urban mobility characteristics and their matching performance as conditions and constraints in transport, emergency management, and sustainability development systems. The book contains crucial information for researchers, engineers, operators, administrators, and policymakers seeking greater understanding of current technologies' infra-knowledge structure and limitations.

Further, the book introduces how to design MDM platforms that adapt to the evolving mobility environment, new types of transportation, and users based on an integrated solution that utilizes sensing and communication capabilities to tackle significant challenges faced by the MDM field. This volume focuses on how to efficiently pre-process mobile big data to extract and utilize critical feature information of high-dimensional city people flow. The book first provides a conceptual theory and framework, then discusses data sources, trajectory map-matching, noise filtering, trajectory data segmentation, data quality assessment, and more, concluding with a chapter on privacy protection in mobile big data mining.



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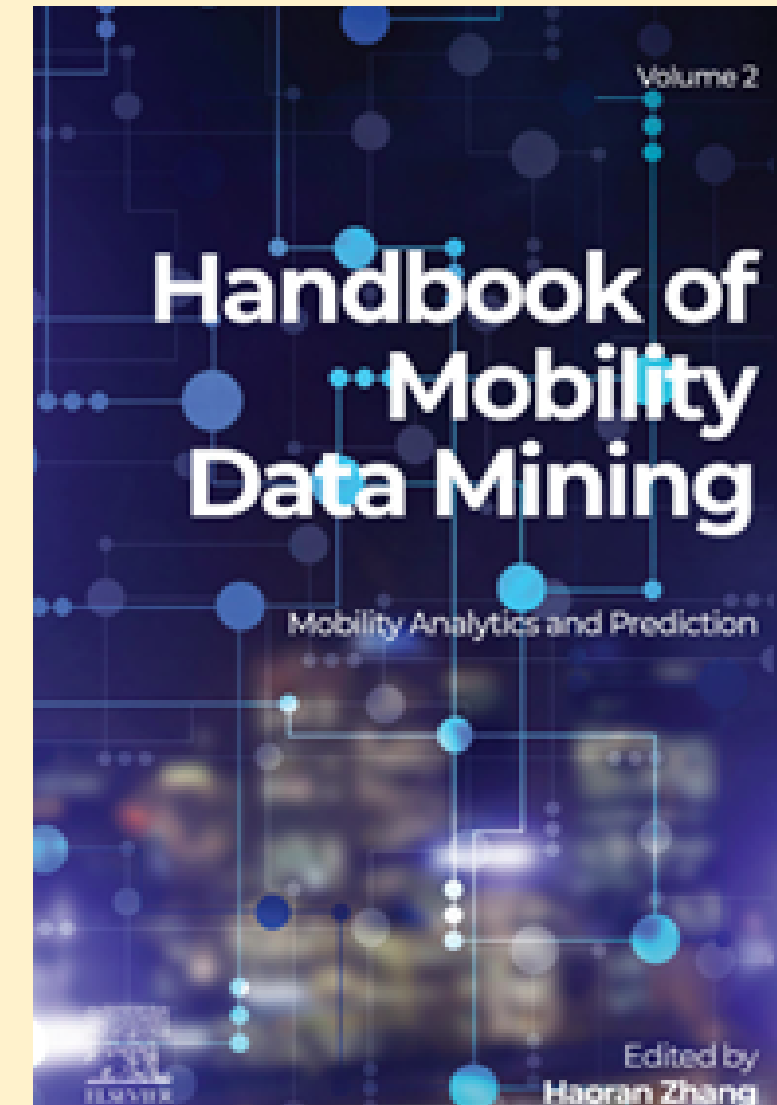
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**Title** : Handbook of Mobility Data Mining, Mobility Analytics and Prediction ·  
Volume 2  
**Editors** : Haoran Zhang  
**ISBN** : 9780443184246  
**Publisher** : Elsevier  
**Year** : 2023

**Abstract:**

Handbook of Mobility Data Mining, Volume Two: Mobility Analytics and Prediction introduces the fundamental technologies of mobile big data mining (MDM), advanced AI methods, and upper-level applications, helping readers comprehensively understand MDM with a bottom-up approach. The book explains how to preprocess mobile big data, visualize urban mobility, simulate and predict human travel behavior, and assess urban mobility characteristics and their matching performance as conditions and constraints in transport, emergency management, and sustainability development systems. The book introduces how to design MDM platforms that adapt to the evolving mobility environment and new types of transportation and users.

This helpful guide provides a basis for how to simulate and predict mobility data. After an introductory theory chapter, the book then covers crucial topics such as long-term mobility pattern analytics, mobility data generators, user information inference, Grid-based population density prediction, and more. The book concludes with a chapter on graph-based mobility data analytics. The information in this work is crucial for researchers, engineers, operators, company administrators, and policymakers in related fields, to comprehensively understand current technologies' infra-knowledge structure and limitations.



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**Title** : Handbook of Mobility Data Mining, Mobility Data-Driven Applications ·  
**Volume 3**  
**Editors** : Haoran Zhang  
**ISBN** : 9780323958929  
**Publisher** : Elsevier  
**Year** : 2023

**Abstract:**

Handbook of Mobility Data Mining: Volume Three: Mobility Data-Driven Applications introduces the fundamental technologies of mobile big data mining (MDM), advanced AI methods, and upper-level applications, helping readers comprehensively understand MDM with a bottom-up approach. The book explains how to preprocess mobile big data, visualize urban mobility, simulate and predict human travel behavior, and assess urban mobility characteristics and their matching performance as conditions and constraints in transport, emergency management, and sustainability development systems. The book contains crucial information for researchers, engineers, operators, administrators, and policymakers seeking greater understanding of current technologies' infra-knowledge structure and limitations.

The book introduces how to design MDM platforms that adapt to the evolving mobility environment—and new types of transportation and users—based on an integrated solution that utilizes sensing and communication capabilities to tackle significant challenges faced by the MDM field. This third volume looks at various cases studies to illustrate and explore the methods introduced in the first two volumes, covering topics such as Intelligent Transportation Management, Smart Emergency Management—detailing cases such as the Fukushima earthquake, Hurricane Katrina, and COVID-19—and Urban Sustainability Development, covering bicycle and railway travel behavior, mobility inequality, and road and light pollution inequality.



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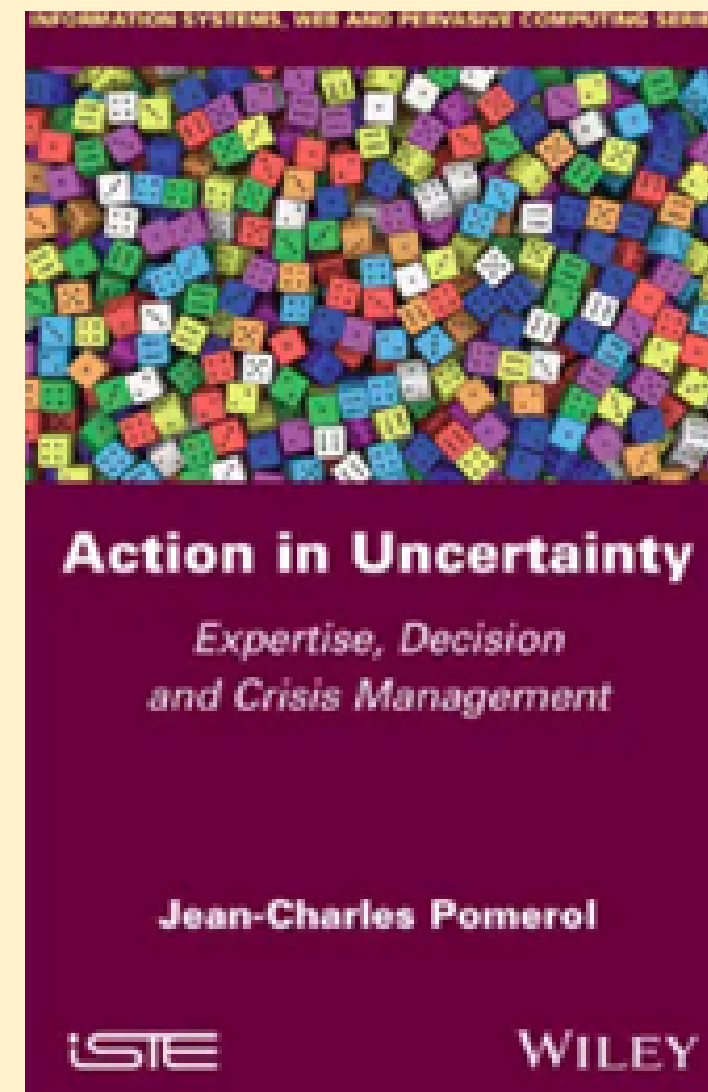
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**Title** : Action in Uncertainty: Expertise, Decision and Crisis Management  
**Author** : Jean-Charles Pomerol  
**ISBN** : 9781786308771  
**Publisher** : Wiley  
**Year** : 2023

**Abstract:**

Despite uncertainty, people are born to act. Faced with environmental aggression and upheaval, inaction is more stressful than action. What choices, strategies or methods need to be implemented so that action is as effective as possible in terms of the objectives to be achieved? We should not delude ourselves about the term "good decision", which does not have much meaning when we act in an uncertain environment and when we know the weakness of forecasts. However, we must know how to act and be capable of taking the most appropriate action.

Action in Uncertainty is a real guide to taking effective action when nothing is certain. According to the different types of uncertainty, what are the respective good uses of expertise and intuition? How do we motivate teams and avoid cognitive bias and manipulation? These themes are dealt with in clear and accessible terms to help decision-makers make the right choices in a world that is more uncertain than ever.



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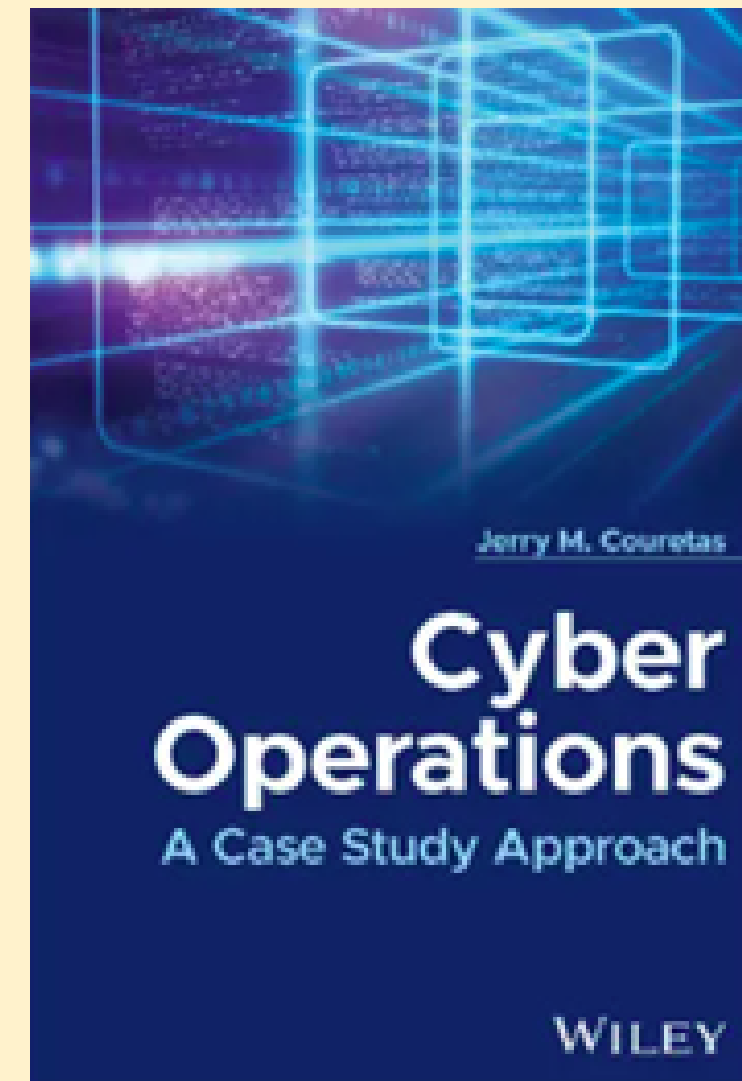


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**Title** : Cyber Operations: A Case Study Approach  
**Author** : Jerry M. Couretas  
**ISBN** : 9781119712091  
**Publisher** : Wiley  
**Year** : 2024

**Abstract:**

Information technology is evolving at a truly revolutionary pace, creating with every passing year a more connected world with an ever-expanding digital footprint. Cyber technologies like voice-activated search, automated transport, and the Internet of Things are only broadening the interface between the personal and the online, which creates new challenges and new opportunities. Improving both user security and quality of life demands a rigorous, farsighted approach to cyber operations. Cyber Operations offers a groundbreaking contribution to this effort, departing from earlier works to offer a comprehensive, structured framework for analyzing cyber systems and their interactions. Drawing on operational examples and real-world case studies, it promises to provide both cyber security professionals and cyber technologies designers with the conceptual models and practical methodologies they need to succeed.



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**Title** : Data Smart: Using Data Science to Transform Information into Insight,  
2nd Edition  
**Author** : Jordan Goldmeier  
**ISBN** : 9781119931386  
**Publisher** : Wiley  
**Year** : 2024

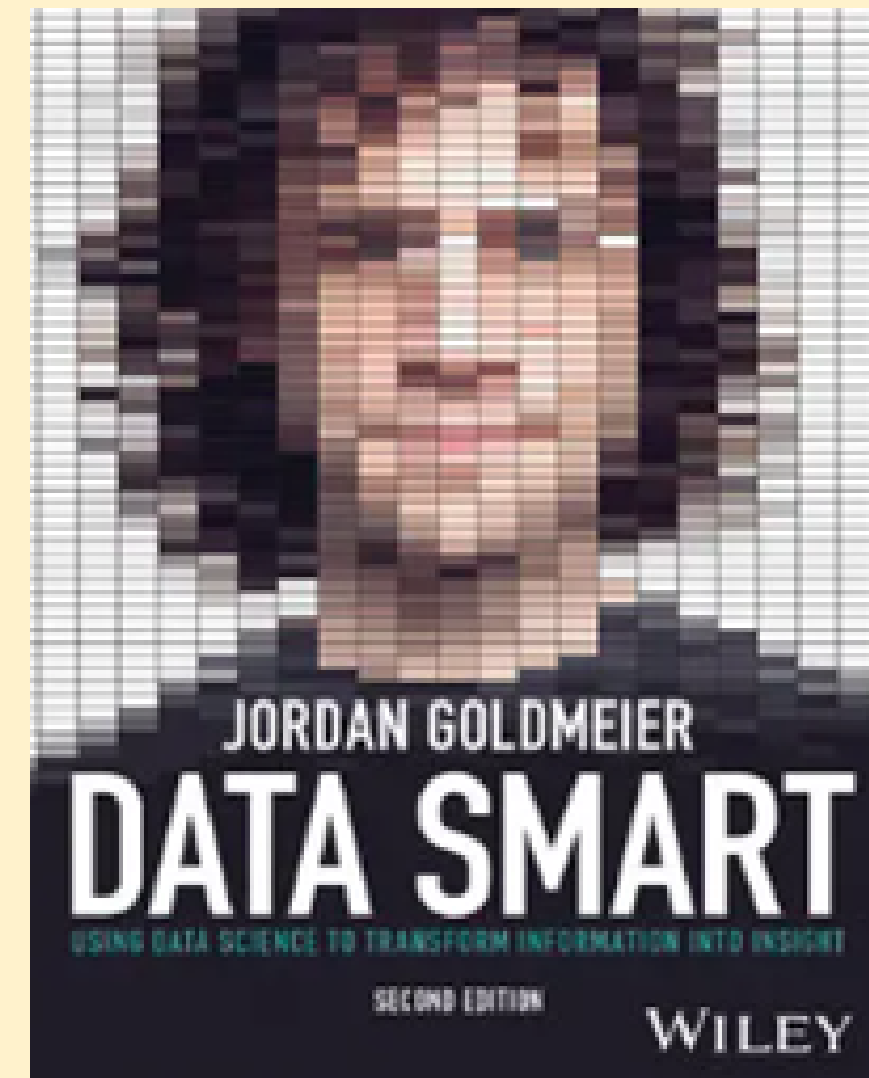
**Abstract:**

Want to jump into data science but don't know where to start? Let's be real, data science is presented as something mystical and unattainable without the most powerful software, hardware, and data expertise. Real data science isn't about technology. It's about how you approach the problem. In this updated edition of Data Smart: Using Data Science to Transform Information into Insight, award-winning data scientist and bestselling author Jordan Goldmeier shows you how to implement data science problems using Excel while exposing how things work behind the scenes.

Data Smart is your field guide to building statistics, machine learning, and powerful artificial intelligence concepts right inside your spreadsheet.

Inside you'll find:

- Four-color data visualizations that highlight and illustrate the concepts discussed in the book
- Tutorials explaining complicated data science using just Microsoft Excel
- How to take what you've learned and apply it to everyday problems at work and life
- Advice for using formulas, Power Query, and some of Excel's latest features to solve tough data problems
- Smart data science solutions for common business challenges
- Explanations of what algorithms do, how they work, and what you can tweak to take your Excel skills to the next level



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**Title** : Advanced Sensor Technology Biomedical, Environmental, and Construction Applications  
**Editors** : Ahmed Barhoum, Zeynep Altintas  
**ISBN** : 9780323902229  
**Publisher** : Elsevier  
**Year** : 2023

**Abstract:**

Advanced Sensor Technology: Biomedical, Environmental, and Construction Applications introduces readers to the past, present and future of sensor technology and its emerging applications in a wide variety of different fields. Organized in five parts, the book covers historical context and future outlook of sensor technology development and emerging applications, the use of sensors throughout many applications in healthcare, health and life science research, public health and safety, discusses chemical sensors used in environmental monitoring and remediation of contaminants, highlights the use of sensors in food, agriculture, fire prevention, automotive and robotics, and more. Final sections look forward at the challenges that must be overcome in the development and use of sensing technology as well as their commercial use, making this book appropriate for the interdisciplinary community of researchers and practitioners interested in the development of sensor technologies.



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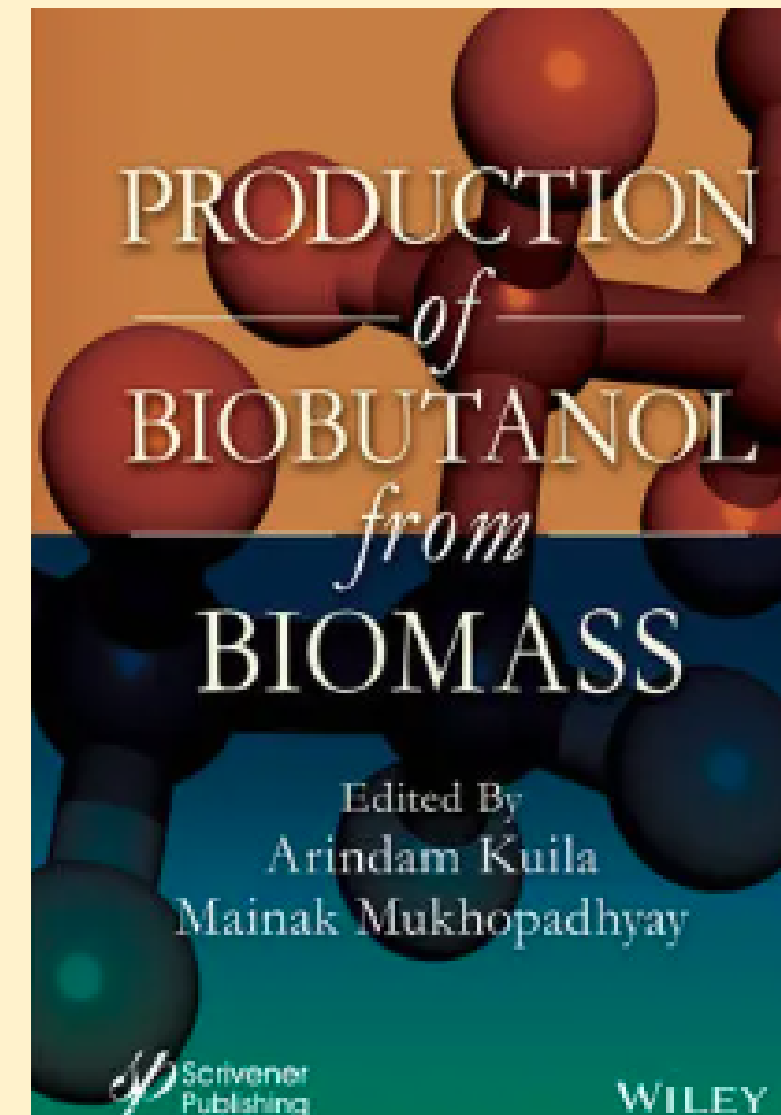
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**Title** : Production of Biobutanol from Biomass  
**Editors** : Arindam Kuila, Mainak Mukhopadhyay  
**ISBN** : 9781394172399  
**Publisher** : Wiley  
**Year** : 2024

**Abstract:**

The book covers all current technologies of lignocellulosic biobutanol production as well as the environmental and socioeconomic impact assessment. N-butanol is a bulk chemical that is used as an industrial solvent and as a component in paint, coatings, and adhesives, among other things. When compared to other biofuels, biobutanol has the advantages of being immiscible in water, having a higher energy content, and having a lower vapor pressure. There are various benefits to producing biobutanol from lignocellulosic biomass. However, there are challenges in producing butanol from lignocellulosic biomass, such as biomass's complex structure, low butanol yield, and high cost of production, etc.

The 13 chapters comprising this book discuss the current technology and prospects of biobutanol production. The first four chapters provide an overview of the current technological status, while the next six chapters discuss different strategies for enhanced biobutanol production from lignocellulosic biomass. The last three chapters present the industrial status and techno-economic analysis of lignocellulosic biobutanol production.



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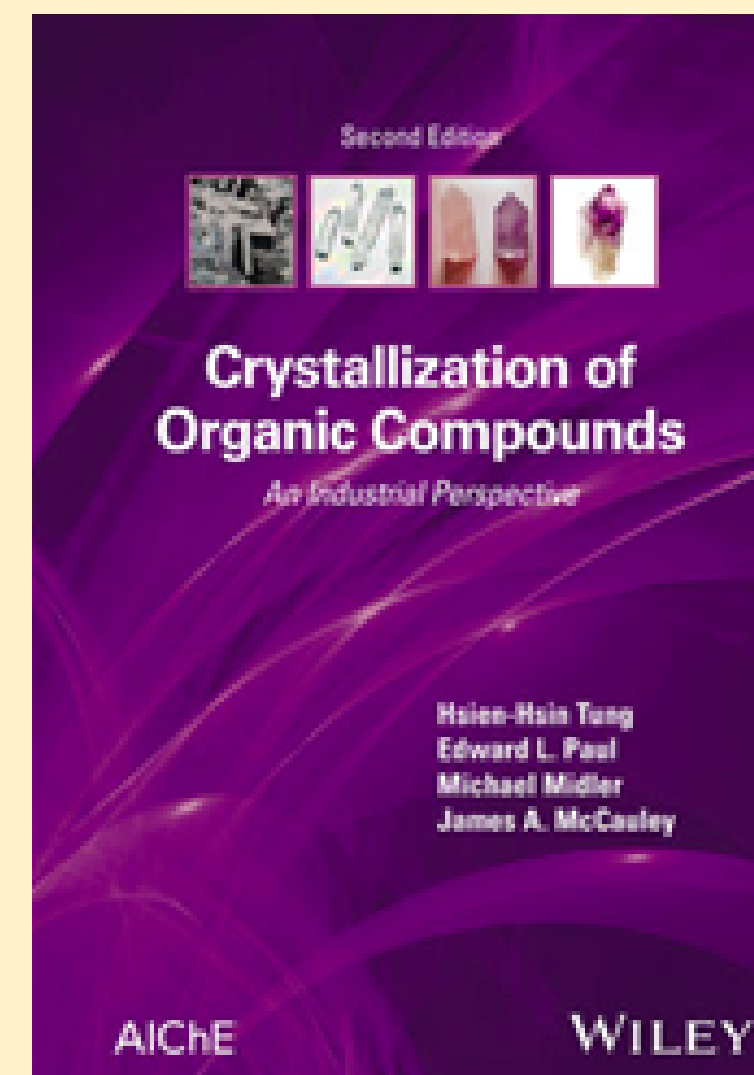
**Title** : Crystallization of Organic Compounds: An Industrial Perspective, Second Edition  
**Authors** : Hsien-Hsin Tung, Edward L. Paul, Micheal Midler, James A. McCauley  
**ISBN** : 9781119879466  
**Publisher** : Wiley  
**Year** : 2023

**Abstract:**

Practical resource covering applications of crystallization principles with methodologies, case studies, and numerous industrial examples for emphasis. Based on the authors' hands-on experiences as process engineers, through the use of case studies and examples of crystallization processes, ranging from laboratory development through manufacturing scale-up, Crystallization of Organic Compounds guides readers through the practical applications of crystallization and emphasizes strategies that have proven to be successful, enabling readers to avoid common pitfalls that can render standard procedures unsuccessful. Advancements in the field of crystallization have been integrated throughout the book in the newly revised Second Edition to ensure the content adequately reflects current state-of-the-art industrial know-hows and practice. The new edition also adds chapters addressing downstream operations after the crystallization, including filtration/washing and drying, together with industrial use cases.

Crystallization of Organic Compounds includes detailed information on:

- Solubility and solid behavior, covering phase rule, polymorph, salt/co-crystal, chiral resolution and in-silico solubility prediction; and kinetics, covering seed, supersaturation, nucleation, crystal growth and model-based experimental design
- Critical issues in the crystallization practice, covering oiling out, seeding/wet-milling, agglomeration/aggregation, mixing scale-up and quality-by-design principles
- Cooling, anti-solvent, evaporation and reactive crystallization process design, covering batch and continuous operations with industrial examples
- Special applications, covering crystallization with ultrasound, reaction selectivity enhancement, and computation fluid dynamics, and solid dispersion



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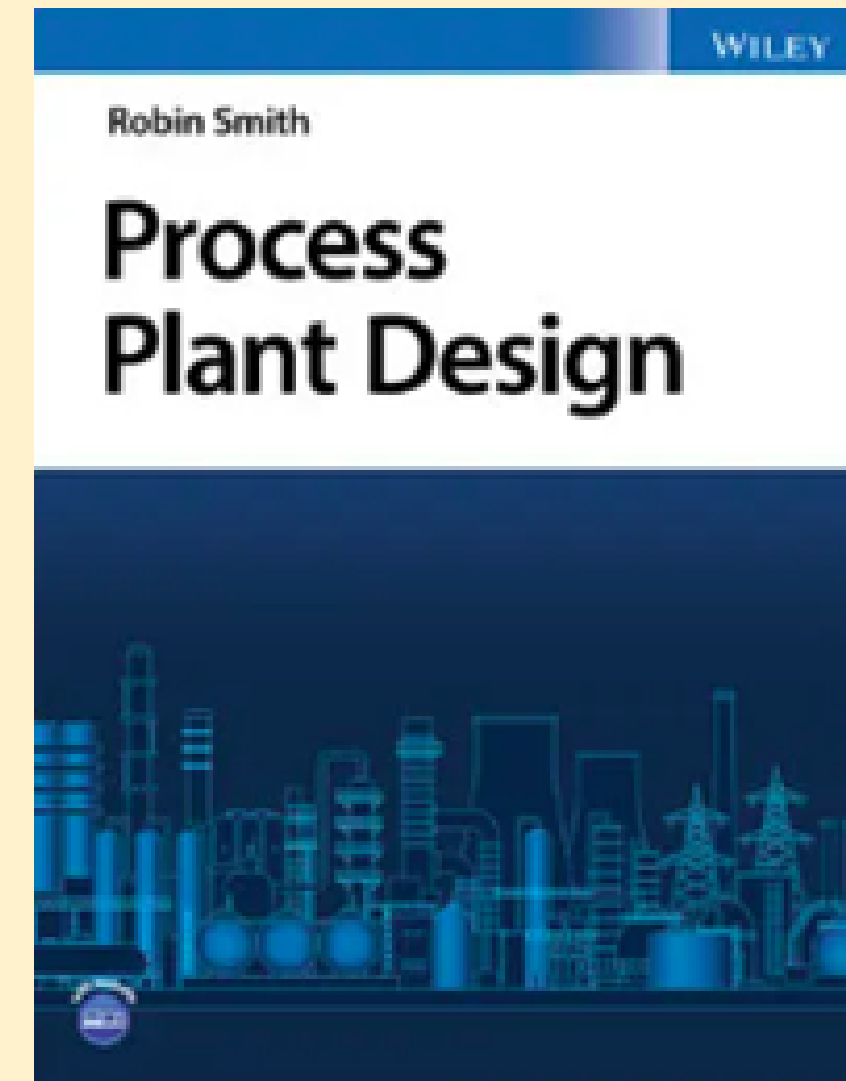
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**Title** : Process Plant Design  
**Author** : Robin Smith  
**ISBN** : 9781119689911  
**Publisher** : Wiley  
**Year** : 2024

**Abstract:**

Process Plant Design provides an introductory practical guide to the subject for undergraduate and postgraduate students of chemical engineering, and practicing chemical engineers:

- Process Plant Design starts by presenting general background from the early stages of chemical process projects and moves on to deal with the infrastructure required to support the operation of process plants.
- The reliability, maintainability and availability issues addressed in the text are important for process safety, and the avoidance of high maintenance costs, adverse environmental impact, and unnecessary process breakdowns that might prevent production targets being achieved.
- A practical approach is presented for the systematic synthesis of process control schemes, which has traditionally received little attention, especially when considering overall process control systems.
- The development of preliminary piping and instrumentation diagrams (P&IDs) is addressed, which are key documents in process engineering.
- A guide is presented for the choice of materials of construction, which affects resistance to corrosion, mechanical design and the capital cost of equipment.
- Whilst the final mechanical design of vessels and equipment is normally carried out by specialist mechanical engineers, it is still necessary for process designers to have an understanding of mechanical design for a variety of reasons.
- Finally, Process Plant Design considers layout, which has important implications for safety, environmental impact, and capital and operating costs.



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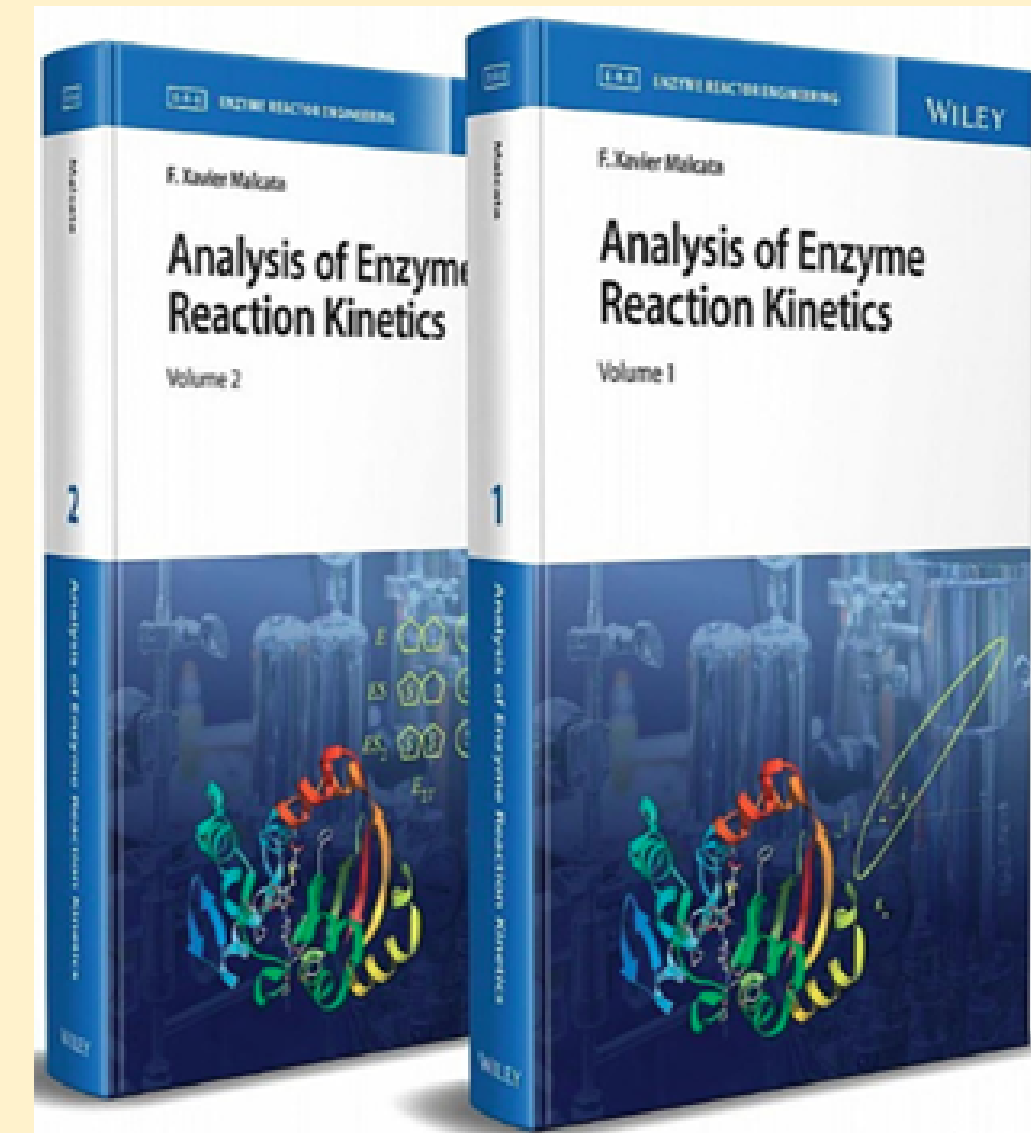


**Title** : Analysis of Enzyme Reaction Kinetics Vol. 1  
**Authors** : F. Xavier Malcata  
**ISBN** : 9781119490241  
**Publisher** : Wiley  
**Year** : 2023

**Abstract:**

Comprehensively introduces readers to modelling of rate of enzymatic reactions, including effects of physicochemical parameters. Analysis of Enzyme Reaction Kinetics is the second set in a unique eleven-volume collection on Enzyme Reactor Engineering. It describes rate expressions pertaining to enzymatic reactions, including modulation by physicochemical factors, as well as tools for prediction and control of how fast substrates are transformed to products. Volume 1 details rate expressions mathematically derived from mechanistic postulates, and is complemented by appropriate statistical approaches to fit them to experimental data. Volume 2 discusses the effects of physical and chemical parameters upon the rates of both enzyme-catalyzed and enzyme-deactivation reactions.

Starting with basic concepts and historical perspectives, the first volume introduces readers to the mathematics of rate expressions. It then goes on to cover kinetic features and the many forms of Michaelis & Menten's-type rate expressions (single and multiple enzymes, autocatalysis, single and multiple substrates, multiphasic systems, etc.), and concludes with the statistical analysis of rate expressions – including the assessment of data, fitting of models to data, and generation of data themselves. The second volume introduces readers to physicochemical modulation of reaction rate – starting with basic concepts, and looking specifically at temperature-, mechanical force-, pH- and compound-driven effects: both unimodal and bimodal deactivation are considered.



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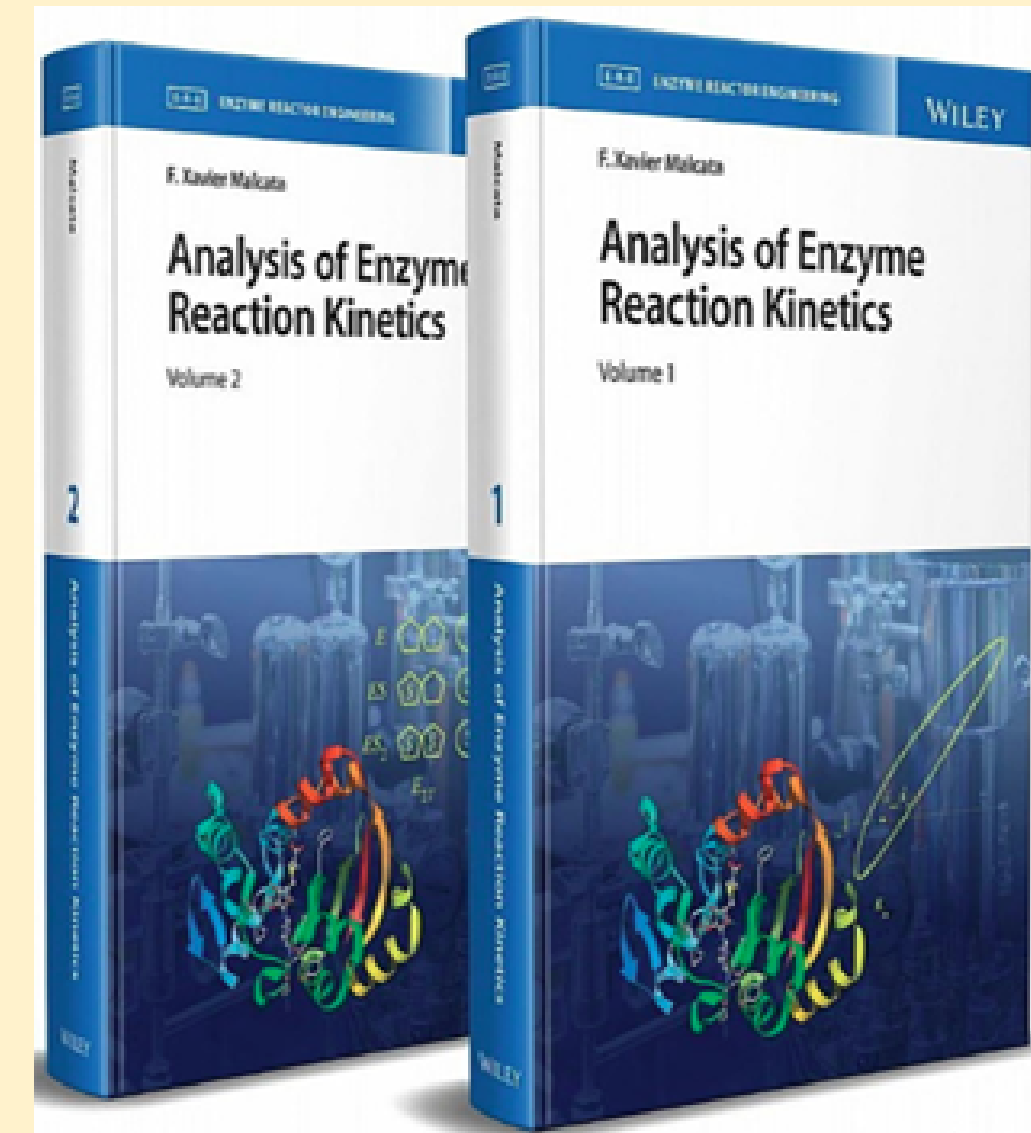
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**Title** : Analysis of Enzyme Reaction Kinetics Vol. 2  
**Authors** : F. Xavier Malcata  
**ISBN** : 9781119490241  
**Publisher** : Wiley  
**Year** : 2023

### Abstract:

Comprehensively introduces readers to modelling of rate of enzymatic reactions, including effects of physicochemical parameters. Analysis of Enzyme Reaction Kinetics is the second set in a unique eleven-volume collection on Enzyme Reactor Engineering. It describes rate expressions pertaining to enzymatic reactions, including modulation by physicochemical factors, as well as tools for prediction and control of how fast substrates are transformed to products. Volume 1 details rate expressions mathematically derived from mechanistic postulates, and is complemented by appropriate statistical approaches to fit them to experimental data. Volume 2 discusses the effects of physical and chemical parameters upon the rates of both enzyme-catalyzed and enzyme-deactivation reactions.

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