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## KEY=YSIS - DOYLE LIN

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# Mathematical Analysis

*New Age International The Book Is Intended To Serve As A Text In Analysis By The Honours And Post-Graduate Students Of The Various Universities. Professional Or Those Preparing For Competitive Examinations Will Also Find This Book Useful. The Book Discusses The Theory From Its Very Beginning. The Foundations Have Been Laid Very Carefully And The Treatment Is Rigorous And On Modern Lines. It Opens With A Brief Outline Of The Essential Properties Of Rational Numbers And Using Dedekinds Cut, The Properties Of Real Numbers Are Established. This Foundation Supports The Subsequent Chapters: Topological Frame Work Real Sequences And Series, Continuity Differentiation, Functions Of Several Variables, Elementary And Implicit Functions, Riemann And Riemann-Stieltjes Integrals, Lebesgue Integrals, Surface, Double And Triple Integrals Are Discussed In Detail. Uniform Convergence, Power Series, Fourier Series, Improper Integrals Have Been Presented In As Simple And Lucid Manner As Possible And Fairly Large Number Solved Examples To Illustrate Various Types Have Been Introduced. As Per Need, In The Present Set Up, A Chapter On Metric Spaces Discussing Completeness, Compactness And Connectedness Of The Spaces Has Been Added. Finally Two Appendices Discussing Beta-Gamma Functions, And Cantors Theory Of Real Numbers Add Glory To The Contents Of The Book.*

## Key Performance Indicators for

# Sustainable Management

## A Compendium Based on the “Balanced Scorecard Approach”

*Walter de Gruyter GmbH & Co KG Key Performance Indicators (KPIs) have become a regular and useful tool for measuring business performance everywhere. The KPIs not only help in strategic planning but also in managing operative business world over. The KPIs in the book are organized according to the Balanced Scorecard (BSC) approach, which emphasizes the importance of using both financial and non-financial information to remain competitive in the modern world. We proudly place on record the fact that our book is the first of its kind and provides for a complete analysis of KPIs under financial, customer, process and human resource/innovation perspectives. The book is a major contribution towards achieving sustainable growth as a competitive advantage. It also emphasizes the importance of social acceptance and environmental impact of the business activity. The compendium provides over 170 KPIs in a compact form. It delivers simple definitions, easy to calculate formulae, possible interpretations and useful suggestions towards an efficient and effective implementation of KPIs as controlling instruments.*

# Microbial Products for Health, Environment and Agriculture

*Springer Nature This edited volume discusses the role of various microbial products in healthcare, environment and agriculture. Several microbial products are directly involved in solving major health problems, agricultural and environmental issues. In healthcare sector, microbes are used as anti-tumor compounds, antibiotics, anti-parasitic agents, enzyme inhibitors and immunosuppressive agents. Microbial products are also used to degrade xenobiotic compounds and bio-surfactants, for biodegradation process. In agriculture, microbial products are used to enhance nutrient uptake, to promote plant growth, or to control plant diseases. The book presents several such applications of microbes in the ecosystems. The chapters are contributed from across the globe and contain up-to-date information. This book is of interest to teachers, researchers, microbiologists and ecologists. Also the book serves as additional reading material for undergraduate and graduate students of agriculture, forestry, ecology, soil science, and environmental sciences.*

# Microbial Metabolism of Xenobiotic

# Compounds

*Springer Xenobiotic compounds including pesticides, nitrophenols, pyridine, polycyclic aromatic compounds and polychlorinated biphenyls are widely spread in environment due to anthropogenic activities. Most of them are highly toxic to living beings due to their mutagenic and carcinogenic properties. Therefore, the removal of these compounds from environment is an essential step for environmental sustainability. Microbial remediation has emerged as an effective technology for degradation of these xenobiotic compounds as microorganisms have unique ability to utilize these compounds as their sole source of carbon and energy. The primary goal of this book is to provide detailed information of microbial degradation of many xenobiotic compounds in various microorganisms.*

## Real Analysis (Classic Version)

*Math Classics Originally published in 2010, reissued as part of Pearson's modern classic series.*

## Bioengineering and Biomedical Signal and Image Processing

## First International Conference, BIOMESIP 2021, Meloneras, Gran Canaria, Spain, July 19-21, 2021, Proceedings

*Springer Nature This book constitutes the refereed proceedings of the First International Conference on Bioengineering and Biomedical Signal and Image Processing, BIOMESIP 2021, held in Meloneras, Gran Canaria, Spain, in July 2021. The 41 full and 5 short papers were carefully reviewed and selected from 121 submissions. The papers are grouped in topical issues on biomedical applications in molecular, structural, and functional imaging; biomedical computing; biomedical signal measurement, acquisition and processing; computerized medical imaging and graphics; disease control and diagnosis; neuroimaging; pattern recognition and machine learning for biosignal data; personalized medicine; and COVID-19.*

# Proceedings of Integrated Intelligence Enable Networks and Computing IIENC 2020

*Springer Nature This book presents best selected research papers presented at the First International Conference on Integrated Intelligence Enable Networks and Computing (IIENC 2020), held from May 25 to May 27, 2020, at the Institute of Technology, Gopeshwar, India (Government Institute of Uttarakhand Government and affiliated to Uttarakhand Technical University). The book includes papers in the field of intelligent computing. The book covers the areas of machine learning and robotics, signal processing and Internet of things, big data and renewable energy sources.*

# Machine Learning, Advances in Computing, Renewable Energy and Communication

## Proceedings of MARC 2020

*Springer Nature This book gathers selected papers presented at International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC 2020), held in Krishna Engineering College, Ghaziabad, India, during December 17-18, 2020. This book discusses key concepts, challenges, and potential solutions in connection with established and emerging topics in advanced computing, renewable energy, and network communications.*

# Information Management and Big Data

## 5th International Conference,

# SIMBig 2018, Lima, Peru, September 3–5, 2018, Proceedings

*Springer* This book constitutes the refereed proceedings of the 5th International Conference on Information Management and Big Data, SIMBig 2018, held in Lima, Peru, in September 2018. The 34 papers presented were carefully reviewed and selected from 101 submissions. The papers address issues such as data mining, artificial intelligence, Natural Language Processing, information retrieval, machine learning, web mining.

# Deep Learning on Graphs

*Cambridge University Press* A comprehensive text on foundations and techniques of graph neural networks with applications in NLP, data mining, vision and healthcare.

# Advances in Communication, Devices and Networking

# Proceedings of ICCDN 2018

*Springer* The book covers recent trends in the field of devices, wireless communication and networking. It presents the outcomes of the International Conference in Communication, Devices and Networking (ICCDN 2018), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India on 2–3 June, 2018. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on addressing real-world problems in the field of electronics, communication, devices and networking.

# Structural Health Monitoring Damage Detection Systems for Aerospace

*Springer Nature* This open access book presents established methods of structural health monitoring (SHM) and discusses their technological merit in the current aerospace environment. While the aerospace industry aims for weight reduction to improve fuel efficiency, reduce environmental impact, and to decrease maintenance time and operating costs, aircraft structures are often designed and built heavier

*than required in order to accommodate unpredictable failure. A way to overcome this approach is the use of SHM systems to detect the presence of defects. This book covers all major contemporary aerospace-relevant SHM methods, from the basics of each method to the various defect types that SHM is required to detect to discussion of signal processing developments alongside considerations of aerospace safety requirements. It will be of interest to professionals in industry and academic researchers alike, as well as engineering students.*

## AI and Machine Learning Paradigms for Health Monitoring System Intelligent Data Analytics

*Springer Nature This book embodies principles and applications of advanced soft computing approaches in engineering, healthcare and allied domains directed toward the researchers aspiring to learn and apply intelligent data analytics techniques. The first part covers AI, machine learning and data analytics tools and techniques and their applications to the class of several hospital and health real-life problems. In the later part, the applications of AI, ML and data analytics shall be covered over the wide variety of applications in hospital, health, engineering and/or applied sciences such as the clinical services, medical image analysis, management support, quality analysis, bioinformatics, device analysis and operations. The book presents knowledge of experts in the form of chapters with the objective to introduce the theme of intelligent data analytics and discusses associated theoretical applications. At last, it presents simulation codes for the problems included in the book for better understanding for beginners.*

## Proceedings of International Conference on Frontiers in Computing and Systems COMSYS 2020

*Springer Nature This book gathers outstanding research papers presented at the International Conference on Frontiers in Computing and Systems (COMSYS 2020), held on January 13-15, 2019 at Jalpaiguri Government Engineering College, West Bengal, India and jointly organized by the Department of Computer Science & Engineering and Department of Electronics & Communication Engineering. The book presents the latest research and results in various fields of machine learning, computational intelligence, VLSI, networks and systems, computational biology, and*

security, making it a rich source of reference material for academia and industry alike.

# The Art of R Programming

## A Tour of Statistical Software Design

*No Starch Press R is the world's most popular language for developing statistical software: Archaeologists use it to track the spread of ancient civilizations, drug companies use it to discover which medications are safe and effective, and actuaries use it to assess financial risks and keep economies running smoothly. The Art of R Programming takes you on a guided tour of software development with R, from basic types and data structures to advanced topics like closures, recursion, and anonymous functions. No statistical knowledge is required, and your programming skills can range from hobbyist to pro. Along the way, you'll learn about functional and object-oriented programming, running mathematical simulations, and rearranging complex data into simpler, more useful formats. You'll also learn to:*

- Create artful graphs to visualize complex data sets and functions*
- Write more efficient code using parallel R and vectorization*
- Interface R with C/C++ and Python for increased speed or functionality*
- Find new R packages for text analysis, image manipulation, and more*
- Squash annoying bugs with advanced debugging techniques*

*Whether you're designing aircraft, forecasting the weather, or you just need to tame your data, The Art of R Programming is your guide to harnessing the power of statistical computing.*

# Information Systems Design and Intelligent Applications

## Proceedings of Fourth International Conference INDIA 2017

*Springer The book is a collection of high-quality peer-reviewed research papers presented at International Conference on Information System Design and Intelligent Applications (INDIA 2017) held at Duy Tan University, Da Nang, Vietnam during 15-17 June 2017. The book covers a wide range of topics of computer science and information technology discipline ranging from image processing, database application, data mining, grid and cloud computing, bioinformatics and many others. The various intelligent tools like swarm intelligence, artificial intelligence, evolutionary algorithms, bio-inspired algorithms have been well applied in different*

domains for solving various challenging problems.

# Amorphous Solid Dispersions

## Theory and Practice

*Springer* This volume offers a comprehensive guide on the theory and practice of amorphous solid dispersions (ASD) for handling challenges associated with poorly soluble drugs. In twenty-three inclusive chapters, the book examines thermodynamics and kinetics of the amorphous state and amorphous solid dispersions, ASD technologies, excipients for stabilizing amorphous solid dispersions such as polymers, and ASD manufacturing technologies, including spray drying, hot melt extrusion, fluid bed layering and solvent-controlled micro-precipitation technology (MBP). Each technology is illustrated by specific case studies. In addition, dedicated sections cover analytical tools and technologies for characterization of amorphous solid dispersions, the prediction of long-term stability, and the development of suitable dissolution methods and regulatory aspects. The book also highlights future technologies on the horizon, such as supercritical fluid processing, mesoporous silica, KinetiSol®, and the use of non-salt-forming organic acids and amino acids for the stabilization of amorphous systems. *Amorphous Solid Dispersions: Theory and Practice* is a valuable reference to pharmaceutical scientists interested in developing bioavailable and therapeutically effective formulations of poorly soluble molecules in order to advance these technologies and develop better medicines for the future.

# Intelligent Communication, Control and Devices

## Proceedings of ICICCD 2017

*Springer* The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It contains high-quality research papers presented at the 2nd international conference, ICICCD 2017, organized by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 15 and 16 April, 2017. The volume broadly covers recent advances of intelligent communication, intelligent control and intelligent devices. The work presented in this book is original research work, findings and practical development experiences of researchers, academicians, scientists and industrial practitioners.



# Soft Computing: Theories and Applications

## Proceedings of SoCTA 2018

*Springer Nature* The book focuses on soft computing and its applications to solve real-world problems in different domains, ranging from medicine and health care, to supply chain management, image processing and cryptanalysis. It includes high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2018), organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India. Offering significant insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing.

## Proceeding of International Conference on Computational Science and Applications

### ICCSA 2019

*Springer Nature* The book consists of high-quality papers presented at the International Conference on Computational Science and Applications (ICCSA 2019), held at Maharashtra Institute of Technology World Peace University, Pune, India, from 7 to 9 August 2019. It covers the latest innovations and developments in information and communication technology, discussing topics such as soft computing and intelligent systems, web of sensor networks, drone operating systems, web of sensor networks, wearable smart sensors, automated guided vehicles and many more.

## Social Theory after the Internet

## Media, Technology, and Globalization

*UCL Press* The internet has fundamentally transformed society in the past 25 years, yet existing theories of mass or interpersonal communication do not work well in understanding a digital world. Nor has this understanding been helped by disciplinary specialization and a continual focus on the latest innovations. Ralph

*Schroeder takes a longer-term view, synthesizing perspectives and findings from various social science disciplines in four countries: the United States, Sweden, India and China. His comparison highlights, among other observations, that smartphones are in many respects more important than PC-based internet uses. Social Theory after the Internet focuses on everyday uses and effects of the internet, including information seeking and big data, and explains how the internet has gone beyond traditional media in, for example, enabling Donald Trump and Narendra Modi to come to power. Schroeder puts forward a sophisticated theory of the role of the internet, and how both technological and social forces shape its significance. He provides a sweeping and penetrating study, theoretically ambitious and at the same time always empirically grounded. The book will be of great interest to students and scholars of digital media and society, the internet and politics, and the social implications of big data.*

## The EBMT Handbook

*This Open Access edition of the European Society for Blood and Marrow Transplantation (EBMT) handbook addresses the latest developments and innovations in hematopoietic stem cell transplantation and cellular therapy. Consisting of 93 chapters, it has been written by 175 leading experts in the field. Discussing all types of stem cell and bone marrow transplantation, including haplo-identical stem cell and cord blood transplantation, it also covers the indications for transplantation, the management of early and late complications as well as the new and rapidly evolving field of cellular therapies. This book provides an unparalleled description of current practices to enhance readers' knowledge and practice skills. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.*

## Urban Informatics

*Springer Nature This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning, control, management, and future planning. It introduces new models and tools being developed to understand and implement these technologies that enable cities to function more efficiently - to become 'smart' and 'sustainable'. The smart city has quickly emerged as computers have become ever smaller to the point where they can be embedded into the very fabric of the city, as well as being central to new ways in which the population can communicate and act. When cities are wired in this way, they have the potential to become sentient and responsive, generating massive streams of 'big' data in real time as well as providing immense opportunities for extracting new forms of urban data through crowdsourcing. This book offers a comprehensive review of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling. It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key*

urban analytics that are fundamental to learning about the smart city, and it outlines ways in which these tools can be used to inform design and policy so that cities can become more efficient with a greater concern for environment and equity.

## Modern Medical Toxicology

JAYPEE BROTHERS PUBLISHERS

## Policy Instruments for Environmental and Natural Resource Management

*Routledge As Thomas Sterner points out, the economic 'toolkit' for dealing with environmental problems has become formidable. It includes taxes, charges, permits, deposit-refund systems, labeling, and other information disclosure mechanisms. Though not all these devices are widely used, empirical application has started within some sectors, and we are beginning to see the first systematic efforts at an advanced policy design that takes due account of market-based incentives. Sterner's book encourages more widespread and careful use of economic policy instruments. Intended primarily for application in developing and transitional countries, the book compares the accumulated experiences of the use of economic policy instruments in the U.S. and Europe, as well as in select rich and poor countries in Asia, Africa, and Latin America. Ambitious in scope, the book discusses the design of instruments that can be employed in a wide range of contexts, including transportation, industrial pollution, water pricing, waste, fisheries, forests, and agriculture. Policy Instruments for Environmental and Natural Resource Management is deeply rooted in economics but also informed by perspectives drawn from political, legal, ecological, and psychological research. Sterner notes that, in addition to meeting requirements for efficiency, the selection and design of policy instruments must satisfy criteria involving equity and political acceptability. He is careful to distinguish between the well-designed plans of policymakers and the resulting behavior of society. A copublication of Resources for the Future, the World Bank, and the Swedish International Development Cooperation Agency (Sida).*

## Information and Communication Technology for Intelligent Systems Proceedings of ICTIS 2020, Volume

# 1

*Springer Nature* This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fourth International Conference on Information and Communication Technology for Intelligent Systems, which was held in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

## Intelligent Systems and Computer Technology

*IOS Press* Recent developments in soft-computation techniques have paved the way for handling huge volumes of data, thereby bringing about significant changes and technological advancements. This book presents the proceedings of the 3rd International Conference on Emerging Current Trends in Computing & Expert Technology (COMET 2020), held at Panimalar Engineering College, Chennai, India on 6 and 7 March 2020. The aim of the book is to disseminate cutting-edge developments taking place in the technological fields of intelligent systems and computer technology, thereby assisting researchers and practitioners from both institutions and industry to upgrade their knowledge of the latest developments and emerging areas of study. It focuses on technological innovations and trendsetting initiatives to improve business values, optimize business processes and enable inclusive growth for corporates, industries and education alike. The book is divided into two sections; 'Next Generation Soft Computing' is a platform for scientists, researchers, practitioners and academics to present and discuss their most recent innovations, trends and concerns, as well as the practical challenges encountered in the field. The second section, 'Evolutionary Networking and Communications' focuses on various aspects of 5G communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It brings together the latest technologies from all over the world, and also provides an excellent international forum for the sharing of knowledge and results from theory, methodology and applications in networking and communications. The book will be of interest to all those working in the fields of intelligent systems and computer technology.

## The Wild East

# Criminal Political Economies in South Asia

*UCL Press The Wild East bridges political economy and anthropology to examine a variety of il/legal economic sectors and businesses such as red sanders, coal, fire, oil, sand, air spectrum, land, water, real estate, procurement and industrial labour. The 11 case studies, based across India, Pakistan and Bangladesh, explore how state regulative law is often ignored and/or selectively manipulated. The emerging collective narrative shows the workings of regulated criminal economic systems where criminal formations, politicians, police, judges and bureaucrats are deeply intertwined. By pioneering the field-study of the politicisation of economic crime, and disrupting the wider literature on South Asia's informal economy, The Wild East aims to influence future research agendas through its case for the study of mafia-enterprises and their engagement with governance in South Asia and outside. Its empirical and theoretical contribution to debates about economic crimes in democratic regimes will be of critical value to researchers in Economics, Anthropology, Sociology, Comparative Politics, Political Science and International Relations, Criminologists and Development Studies, as well as to those inside and outside academia interested in current affairs and the relationship between crime, politics and mafia enterprises.*

## Indian Books in Print

# Advanced Polymeric Materials

## Structure Property Relationships

*CRC Press Featuring contributions from experts at some of the world's leading academic and industrial institutions, Advanced Polymeric Materials: Structure Property Relationships brings into book form a wealth of information previously available primarily only within computer programs. In a welcome narrative treatment, it provides comprehensive coverage of polymeric materials, including polymer composites as well as the more commonly addressed polymer blends. Along with discussion on a variety of applications, topics include general aggregate properties, design considerations, characterization and enhancement of physical and mechanical properties, processing and manufacturing, and components failure.*

# Vascular Surgery

# A Global Perspective

*Springer Vascular surgery has experienced remarkable growth and diversification in the last decade, especially with its embracing the disruptive endovascular technological revolution. Vascular surgeons remain the only group of specialists capable of total treatment of patients with vascular disease, providing medical, minimally invasive, and surgical therapy. Although vascular surgeons practice in all areas of the world, practice patterns in different areas naturally have both similarities and differences that reflect both regional patterns of disease, genetic characteristics of local peoples, cultural preferences for treatment, local political and economic situations, different access to resources and devices, as well as different training paradigms. Thus, the practice of vascular surgery has diversified and evolved in parallel in many areas, converging and diverging in many ways. Vascular Surgery: A Global Perspective provides the first review and comparison of the diversity of vascular surgery practice around the world. The book is grouped according to common vascular diseases such as aneurysmal and occlusive arterial disease, as well as venous and lymphatic disease and dialysis access. Each major disease topic includes multiple chapters written by expert specialists from around the world, each discussing their local approach to the disease and its treatment. Similarly, the status of vascular surgery practice is addressed, including discussion of the influence of payment systems on practice, patient access to the internet for information, training paradigms, and the legal system including malpractice. This textbook provides the first worldwide summary of the care of patients with vascular disease and will be of interest to a wide audience including vascular surgeons, vascular medical specialists, cardiologists, radiologists, internists, and family practice physicians.*

# The Comprehensive Cancer Center Development, Integration, and Implementation

*Springer This open access book provides a valuable resource for hospitals, institutions, and health authorities worldwide in their plans to set up and develop comprehensive cancer care centers. The development and implementation of a comprehensive cancer program allows for a systematic approach to evidence-based strategies of prevention, early detection, diagnosis, treatment, and palliation. Comprehensive cancer programs also provide a nexus for the running of clinical trials and implementation of novel cancer therapies with the overall aim of optimizing comprehensive and holistic care of cancer patients and providing them with the best opportunity to improve quality of life and overall survival. This book's self-contained chapter format aims to reinforce the critical importance of comprehensive cancer care centers while providing a practical guide for the*

*essential components needed to achieve them, such as operational considerations, guidelines for best clinical inpatient and outpatient care, and research and quality management structures. Intended to be wide-ranging and applicable at a global level for both high and low income countries, this book is also instructive for regions with limited resources. The Comprehensive Cancer Center: Development, Integration, and Implementation is an essential resource for oncology physicians including hematologists, medical oncologists, radiation oncologists, surgical oncologists, and oncology nurses as well as hospitals, health departments, university authorities, governments and legislators.*

## Applications of Topic Models

*Now Publishers Describes recent academic and industrial applications of topic models with the goal of launching a young researcher capable of building their own applications of topic models.*

## Progress in Advanced Computing and Intelligent Engineering

### Proceedings of ICACIE 2019, Volume 1

*Springer Nature This book features high-quality research papers presented at the 4th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2019), Department of Computer Science, Rama Devi Women's University, Bhubaneswar, Odisha, India. It includes sections describing technical advances and contemporary research in the fields of advanced computing and intelligent engineering, which are based on the presented articles. Intended for postgraduate students and researchers working in the discipline of computer science and engineering, the book also appeals to researchers in the domain of electronics as it covers hardware technologies and future communication technologies.*

## Comorbidity of Mental and Physical Disorders

*Karger Medical and Scientific Publishers 0*

## Treatment Resistance in Psychiatry

# Risk Factors, Biology, and Management

*Springer* This book reviews all the important aspects of treatment-resistant psychiatric disorders, covering issues such as definitions, clinical aspects, neurobiological correlates, treatment options, and predictors of treatment response. The book is divided into three sections, the first of which examines the most recent thinking on treatment resistance in psychiatry, including definition and epidemiology, paradigm shift in the study of the subjects, individual susceptibility and resilience, abnormal structural or functional connectivity, and insights from animal models. The second section then discusses treatment resistance in each of the major psychiatric disorders, with particular focus on the responsible clinical and biological factors and the available management strategies. Finally, more detailed information is presented on diverse pharmacological and non-pharmacological therapeutic interventions. The book, written by leading experts from across the world, will be of value to all who seek a better understanding of the clinical-neurobiological underpinnings and the development of management for treatment resistance in psychiatric disorders.

# Sustainable Degradation of Lignocellulosic Biomass

## Techniques, Applications and Commercialization

*BoD - Books on Demand* This book provides important aspects of sustainable degradation of lignocellulosic biomass which has a pivotal role for the economic production of several value-added products and biofuels with safe environment. Different pretreatment techniques and enzymatic hydrolysis process along with the characterization of cell wall components have been discussed broadly. The following features of this book attribute its distinctiveness: This book comprehensively covers the improvement in methodologies for the biomass pretreatment, hemicellulose and cellulose breakdown into fermentable sugars, the analytical methods for biomass characterization, and bioconversion of cellulose into biofuels. In addition, mechanistic analysis of biomass pretreatment and enzymatic hydrolysis have been discussed in details, highlighting key factors influencing these processes at industrial scale.



# The Weibull Distribution

## A Handbook

*CRC Press The Most Comprehensive Book on the Subject Chronicles the Development of the Weibull Distribution in Statistical Theory and Applied Statistics Exploring one of the most important distributions in statistics, The Weibull Distribution: A Handbook focuses on its origin, statistical properties, and related distributions. The book also presents various approaches to estimate the parameters of the Weibull distribution under all possible situations of sampling data as well as approaches to parameter and goodness-of-fit testing. Describes the Statistical Methods, Concepts, Theories, and Applications of This Distribution Compiling findings from dozens of scientific journals and hundreds of research papers, the author first gives a careful and thorough mathematical description of the Weibull distribution and all of its features. He then deals with Weibull analysis, using classical and Bayesian approaches along with graphical and linear maximum likelihood techniques to estimate the three Weibull parameters. The author also explores the inference of Weibull processes, Weibull parameter testing, and different types of goodness-of-fit tests and methods. Successfully Apply the Weibull Model By using inferential procedures for estimating, testing, forecasting, and simulating data, this self-contained, detailed handbook shows how to solve statistical life science and engineering problems.*

## Virtual Reality

## Technologies, Medical Applications and Challenges

*Nova Science Pub Incorporated Suppose I am a blind man, and I use a stick. I go tap, tap, tap. Where do I start? Is my mental system bounded at the handle of the stick? Is it bounded by my skin? Does it start halfway up the stick? Does it start at the tip of the stick? (Bateson, 1972:459; Form, Substance and Difference) One of the most amazing capacities of the human mind is its ability to go beyond its boundaries. The well-known example of the blind man by Gregory Bateson helps us understand how our mind is able to expand its potentiality thanks to the use of a tool. This famous example demonstrates two specific features that characterize the relationship between the human mind and the use of tool. From a neuropsychological point of view, the tool is integrated in near space, extending it to the end point of the instrument. From a phenomenological point of view, we are present in the tool because we can use it in an intuitive way to realize our intentions. As Riva and Mantovani suggested, there is also another type of relationship between mind and technology, namely the second-order mediated action. In this case, the subject uses*

*the body to control a distal tool that controls a different one to exert an action upon an external object. An example of a second-order mediated action is what happens with Virtual Reality (VR): I use my body to move an avatar (a distal tool) to exert an action upon an external object (a virtual environment). On one side, the outcome of this process further extends the space of action. From an experiential viewpoint, when interacting in a virtual space, we are also present in the distal virtual environment. On these theoretical bases, it is clear what makes VR development distinctively important is that it represents more than a simple technology in different domains of human society. In recent years, the field of VR has grown immensely. Practical applications for the use of this advanced technology encompasses many fields, from personnel training supported by interactive 3D images in industrial centers, to the use of interactive virtual environments for marketing purposes. One of the newest fields to benefit from the advances in VR technology is medicine and healthcare. Impressive advances in technology, coupled with a reduction in the economic costs have supported the development of more usable, useful, and accessible VR systems that can uniquely target a range of physical, psychological, and cognitive clinical targets and research questions. The aim of the book *Virtual Reality-Technologies, Medical Applications, and Challenges* is twofold: (1) to provide a critical overview of the most interesting medical applications of VR technologies and (2) to reflect on the future challenges in this growing field.*

## THE IMPACT OF THE DIGITAL WORLD ON MANAGEMENT AND MARKETING

*Poltext The book aims to give an insight into the multifacetedness of changes the Internet - referred to here as the digital world - triggers in both theory and practice of marketing and management. The book has been divided into 5 subject areas, i.e. management, strategy, communications, brand, and consumer, all of which act as the main themes of subsequent chapters.*