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This book integrates philosophy of science, data acquisition methods, and statistical modeling techniques to present readers with a forward-thinking perspective on clinical science. It reviews modern research practices in clinical psychology that support the goals of psychological science, study designs that promote good research, and quantitative methods that can test specific scientific questions. It covers new themes in research including intensive longitudinal designs, neurobiology, developmental psychopathology, and advanced computational methods such as machine learning. Core chapters examine significant statisti-

cal topics, for example missing data, causality, meta-analysis, latent variable analysis, and dyadic data analysis. A balanced overview of observational and experimental designs is also supplied, including preclinical research and intervention science. This is a foundational resource that supports the methodological training of the current and future generations of clinical psychological scientists.

The series Topics in Organometallic Chemistry presents critical overviews of research results in organometallic chemistry. As our understanding of organometallic structure, properties and mechanisms increases, new ways are opened for the design of organometallic compounds and reac-

tions tailored to the needs of such diverse areas as organic synthesis, medical research, biology and materials science. Thus the scope of coverage includes a broad range of topics of pure and applied organometallic chemistry, where new breakthroughs are being achieved that are of significance to a larger scientific audience. The individual volumes of Topics in Organometallic Chemistry are thematic. Review articles are generally invited by the volume editors. All chapters from Topics in Organometallic Chemistry are published OnlineFirst with an individual DOI. In references, Topics in Organometallic Chemistry is abbreviated as Top Organomet Chem and cited as a journal. Now in its eighth edition,

Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

Scattering matrix description of an antenna. Data reduction in spherical near-field measurements. Measurements. Error analysis of spherical near-field measurements. Plane-wave synthesis. Spherical wave functions, notation and properties. Rotation of spherical waves. Translation of spherical waves. Data processing in antenna measurements.

An up-to-date overview of diverse findings and accomplishments in biocatalysis and bioenergy With the high price of

petroleum and researchers worldwide seeking new means of producing energy, this comprehensive book on biocatalysis for bioenergy and biofuel applications is very timely. It combines information on state-of-the-art advances and in-depth reviews of the latest achievements in biocatalysis and bioenergy, emphasizing biodiesel, bioethanol, and industrial products. The advantages of biocatalysis include high specificity, efficiency, energy conservation, and pollution reduction. Biocatalysis and Bioenergy details advances in the field, with: \* Three primary sections, covering biodiesel research, bioethanol, and industrial products \* Information on enzyme catalysis, biotransformation, bioconversion, fermentation, genetic engineering, and product recovery \* \* Contributions from leading experts worldwide who share their research and findings The prospect of using biocatalysis for the production of energy has great potential due to its cost-effectiveness, the fact that it does not require a limited resource such as oil, and its potential universality of application and use globally. This is the definitive reference for biochemists and bio-

chemical engineers, bioprocess and bioenergy scientists, physical and oil chemists (oleochemists), microbiologists, industrial microbiologists, molecular biologists, metabolic engineers working in biocatalysis, bioethanol, and biodiesel fuels, DOE scientists working on renewable energy, and other professionals in related fields.

In the relatively few decades since the introduction of HIV into the human population, variants of the virus have diverged to such an extent that, were the discussion about something other than viruses, said variants could easily be classified as different species. This book will consider these evolutionary variations, as well as the different and, at times, opposing theories attempting to explain them. It will compare and contrast the ways in which the immune system and drugs affect the virus's evolution, and the implications of these for vaccine development. The issue will be explored and explained through "ecological genetics," which postulates that all living organisms have, besides rivals, enemies. This is divergent from the more traditional school of "population genetics," which emphasizes that evolution oc-

curs among rival species (or variants thereof) that compete for niches or resources in a fixed, unreactive environment. Both models will be formulated using mathematical models, which will be included in the book. Finally, it will consider the possibilities for designing a vaccine that blocks HIV from escaping the immune system.

Preparation and Characterization of Materials brings together the proceedings of the Indo-U.S. Workshop on the Preparation and Characterization of Materials, held on February 19-23, 1981, at the Indian Institute of Science in Bangalore, India. The papers focus on advances and developments in the preparation and characterization of materials such as ferroics, layered materials, metal oxides and other electronic materials, amorphous materials including glasses, and high-temperature ceramics. This book is comprised of 25 chapters and begins with a discussion on crystal growth and other preparation techniques, touching on topics such as solid state synthesis of complex oxides and preparation of soft ferrites. The application of neutron scattering techniques and ana-

lytical electron microscopy to materials research and materials science is then considered, along with the dielectric and electro-optic applications of ferroics and the preparation and characterization of synthetic layered inorganic ion exchangers. Subsequent chapters deal with metal oxides and other electronic materials; glasses and other amorphous materials; and high-temperature ceramics such as silicon nitride. This monograph will be of interest to materials scientists and engineers as well as students and researchers in materials science.

Applied Business Statistics: Methods and Excel-based applications (second edition) is an introductory Statistics text written specifically for Management students who require an understanding of the role of Statistics in analysing business data in fields such as Marketing, Finance, Human Resources, Production and Logistics. The primary focus of this text is to empower management students with statistical decision making skills so that they become active participants rather than passive observers in business situations where statistical findings are reported

and discussed as part of a management decision making process. The text is divided into three major sections: „h exploratory data analysis „h statistical inferences, and „h statistical modelling. Each section focuses on a different role of Statistics as a decision support tool. Emphasis is therefore placed on: „h the data requirements for the various techniques and issues of data quality „h indentifying likely application areas through numerous illustrative examples „h noting the limitations of techniques for decision analysis, and the valid management interpretation of statistical findings. A new feature of this edition of Applied Business Statistics is the use of computer software such as Excel to perform statistical analysis. Excel’s statistical capabilities are illustrated through numerous worked examples found in the text. Students are given the opportunity to familiarize themselves with Excel’s statistical capabilities by applying them to data sets of business problems, which are available on the accompanying CD. Students can monitor their learning with the help of the exercises at the end of every chapter. Each statistical technique

is developed through business-related worked examples drawn from the author's diverse work experiences as a statistical consultant. In this way, a student can readily grasp the basic concept of the technique as well as see how it would be applied in practice. This combination of method and application should prove helpful to both student and lecturer. With a working knowledge of Excel, students can become managers who are able to design and conduct their own statistical analysis in the workplace. Applied Business Statistics is therefore accessible to all students, as only a basic level of mathematical ability is required to work through this book.

This book highlights cutting-edge research on various aspects of human-computer interaction (HCI). It includes selected research papers presented at the Third International Conference on Computing, Communication and Signal Processing (ICCCSP 2018), organized by Dr. Babasaheb Ambedkar Technological University in Lonere-Raigad, India on January 26-27, 2018. It covers pioneering topics in the field of computer, electrical, and electronics engineering, e.g. signal

and image processing, RF and microwave engineering, and emerging technologies such as IoT, cloud computing, HCI, and green computing. As such, the book offers a valuable guide for all scientists, engineers and research students in the areas of engineering and technology.

This title presents an international comparison of elite sports policies in six nations (Norway, Canada, Italy, Holland, the UK and Belgium). Drawing on research involving more than 1400 athletes, coaches, and performance directors, it evaluates and compares over 100 factors that lead to international sporting success.

Now in its seventh edition, Basic Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a com-

panion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

A Century of Geography at Stellenbosch University 1920-2020 focuses on the establishment and development of geography as an academic discipline at Stellenbosch, South Africa's founding geography department. The ways in which the department currently operates are deemed fundamentally joined to its past and pave the way for the evolution of geography and its various subdisciplines going forward. The investigation seeks to highlight the development of the discipline and its institutionalisation as part of the academic offerings of the university, while providing details about the teaching and research conducted, as well as of the people who contributed to these endeavours. It also furnishes the academic geography community at Stellenbosch, and geography more broadly, with some insights into its past development and more recent changes, along with a complete bibliography of conducted research.

This book presents the

proceedings of the 8th International Workshop on Soft Computing Applications, SOFA 2018, held on 13–15 September 2018 in Arad, Romania. The workshop was organized by Aurel Vlaicu University of Arad, in conjunction with the Institute of Computer Science, Iasi Branch of the Romanian Academy, IEEE Romanian Section, Romanian Society of Control Engineering and Technical Informatics – Arad Section, General Association of Engineers in Romania – Arad Section and BTM Resources Arad. The papers included in these proceedings, published post-conference, cover the research including Knowledge-Based Technologies for Web Applications, Cloud Computing, Security Algorithms and Computer Networks, Business Process Management, Computational Intelligence in Education and Modelling and Applications in Textiles and many other areas related to the Soft Computing. The book is directed to professors, researchers, and graduate students in area of soft computing techniques and applications.

N-Heterocyclic Carbenes in Transition Metal Catalysis and Organocatalysis features all catalytic reactions enabled by N-hetero-

cyclic carbenes (NHCs), either directly as organocatalysts or as ligands for transition metal catalysts. An explosion in the use of NHCs has been reported in the literature during the past seven years making this comprehensive overview highly apropos. The book begins with an introductory overview of NHCs which could have been subtitled all you need to know about NHCs. The main body of the book is dedicated to applications of NHCs in catalysis. In addition to the success stories of NHCs in metathesis, NHCs in cross coupling and more recently NHCs in organocatalysis, all other less publicized areas are also covered. As the success of NHCs is generally attributed to their potential to stabilize metal centres, the inclusion of a chapter on the decomposition of NHC catalysts is pertinent. The book closes with a chapter describing the applications of NHCs in industrial processes, which is the first coverage of its kind, and brings a unique industrial context to this book. Included in this book: Historical aspects of NHCs Synthetic pathways to NHC precursors, free NHCs and complexes Methods of characterisation of NHCs and related

complexes Electronic properties of NHCs Steric properties of NHCs and models for their description NHCs for metathesis and cross-coupling reactions NHCs as organocatalysts NHC Transition-Metal mediated oxidations, additions to multiple bonds, polymerisation and oligomerisation, cyclisations, direct arylations, reactions involving CO, C-F and C-H bond activation, ... Decomposition of NHC-containing catalysts Industrial applications involving NHC-containing catalysts N-Heterocyclic Carbenes in Transition Metal Catalysis and Organocatalysis provides a fresh view of NHCs since most contributors are young emerging researchers in the field of homogeneous catalysis using NHCs. This group of contributors is complemented by highly established academic researchers and an industrialist. This book is comprehensive, from the basic features of NHCs to the latest advances, hence it is suitable for both the novice and the expert.

This book introduces the theory of stochastic processes with applications taken from physics and finance. Fundamental concepts like the random walk or Brownian motion but also Levy-stable distri-

butions are discussed. Applications are selected to show the interdisciplinary character of the concepts and methods. In the second edition of the book a discussion of extreme events ranging from their mathematical definition to their importance for financial crashes was included. The exposition of basic notions of probability theory and the Brownian motion problem as well as the relation between conservative diffusion processes and quantum mechanics is expanded. The second edition also enlarges the treatment of financial markets. Beyond a presentation of geometric Brownian motion and the Black-Scholes approach to option pricing as well as the econophysics analysis of the stylized facts of financial markets, an introduction to agent based modeling approaches is given.

#1 New York Times bestselling author Joyce Meyer's all-time bestselling book, now bound together with its companion study guide, will help readers change their lives by improving their thoughts. Worry, doubt, confusion, depression, anger and feelings of condemnation: all are attacks on the mind. If readers suffer from negative thoughts,

they can take heart! Joyce Meyer has helped millions win these all-important battles. In her most popular bestseller ever, the beloved author and minister shows readers how to transform their lives by changing their minds. Readers will learn to deal with thousands of thoughts they may think every day and how to focus the mind the way God thinks. She shares personal stories, biblical truth, and encouragement to help readers think with purpose, win the battles of their minds, and begin a joy-filled life.

Secondary edition statement from sticker on cover.

Selected papers from a symposium on A new Focus on Integrated Analysis of Groundwater-Surface Water Systems, held during the International Union of Geodesy and Geophysics XXIV General Assembly in Perugia, Italy, 11-13 July 2007.

This two-volume book is a modern introduction to the theory of numbers, emphasizing its connections with other branches of mathematics. Part A is accessible to first-year undergraduates and deals with elementary number theory. Part B is more advanced and gives the read-

er an idea of the scope of mathematics today. The connecting theme is the theory of numbers. By exploring its many connections with other branches a broad picture is obtained. The book contains a treasury of proofs, several of which are gems seldom seen in number theory books.

With its clear and simple writing style, PRECALCULUS: MATHEMATICS FOR CALCULUS, 7E, INTERNATIONAL METRIC EDITION, will give you a solid foundation in the principles of mathematical thinking. Problem solving and mathematical modeling are reinforced throughout. This comprehensive, evenly paced book provides complete coverage of the function concept and integrates substantial graphing calculator materials that help you develop insight into mathematical ideas. Online resources available with the text give you the practice you need to improve your grade in the course.

Publisher Description

Classified list with author and title index.

With an attractive new slipcase and binding, this compact Bible is an ideal gift and spiritual companion. The full text of the ever-popular Authorized

King James Version Bible, with all its literary beauty and poetic grandeur, in an attractive size and with beautiful binding and slip-case making it an ideal gift. Includes silver gilt edged pages and white marker ribbon.

Niku offers comprehensive, yet concise coverage of robotics that will appeal to engineers. Robotic applications are drawn from a wide variety of fields. Emphasis is placed on design along with analysis and modeling. Kinematics and dynamics are covered extensively in an accessible style. Vision systems are discussed in detail, which is a cutting-edge area in robotics. Engineers will also find a running design project that reinforces the concepts by having them apply what they've learned.

The use of trace elements to promote biogas production features prominently on the agenda for many biogas-producing companies. However, the application of the technique is often characterized by trial-and-error methodology due to the ambiguous and scarce basic knowledge on the impact of trace elements in anaerobic biotechnologies under different process conditions. This book describes

and defines the broad landscape in the research area of trace elements in anaerobic biotechnologies, from the level of advanced chemistry and single microbial cells, through to engineering and bioreactor technology and to the fate of trace elements in the environment. The book results from the EU COST Action on 'The ecological roles of trace metals in anaerobic biotechnologies'. Trace elements in anaerobic biotechnologies is a critical, exceptionally complex and technical challenge. The challenging chemistry underpinning the availability of trace elements for biological uptake is very poorly understood, despite the importance of trace elements for successful anaerobic operations across the bioeconomy. This book discusses and places a common understanding of this challenge, with a strong focus on technological tools and solutions. The group of contributors brings together chemists with engineers, biologists, environmental scientists and mathematical modellers, as well as industry representatives, to show an up-to-date vision of the fate of trace elements on anaerobic biotechnologies.

Set in South Africa, MindF\*\*k is a powerful, disturbing, and at times frightening story. Chris Burns, and his friends - Kerbs and Sky Eyes - take to the road, heading for the MindF\*\*k rock festival. Along the way they pick up the gorgeous Partygirl. Burns and Partygirl connect immediately. But on the first night, while the rockmusic blasts from the stage, something unexpected happens - Burns's world gets turned on its head as one of the boys emerges from the tent with blood on his hands. MindF\*\*k is a real page-turner. The gripping, character-focused, first-person narrative delves right to the heart of a life on-the-edge and virtually out of control. Gritty, hard-hitting, and often shocking, it is packed with drama, emotion, suspense and intrigue from one page to the next. And there is a serious sting in the tail. MindF\*\*k is part of the Cutting Edge series: fast-paced, quick reads for teens and young adults looking for fiction which chimes with their perspective on life. Mindf\*\*k is a title in the highly contemporary Cutting Edge fiction series for young adults. The series features fast-paced quick reads. Each book focuses on difficult topics and situ-

ations that many teenagers will have experienced first-hand or through friends. *Cutting Edge* is ideal for readers aged 14+ with a reading age of 12+.

Robert Greene's *The 48 Laws of Power* has shaken up the lives of millions. It's wielded by successful business executives, leading actors and musicians, and even by criminal kingpins. But how can you apply its lessons to your life? Perhaps you want to become a modern Machiavelli. Perhaps you want to escape the daily grind and realise your true potential and your dreams. Or maybe you're just tired of finding yourself the victim of other people's games. But with 48 Laws to choose from and a strong possibility that any one of them might seem like a radical overhaul of your habits and thought processes, it can seem overwhelming or impossible to put the Laws into practice. Help is at hand. Drawing on our major podcast series, *Exploring The 48 Laws of Power*, this book provides all you need to put the Laws into practice and make lasting changes to your life. We reveal the

3 Most Powerful Laws (the ones you should start with, and on which all the others build) and the 4 Indispensable Power Principles (the specific rules of thumb and social 'hacks' which explain how the Laws really work in the world today). Armed with this knowledge, *The 48 Laws of Power* won't be a cool book you glanced through and then shelved. It will change your life.

Bringing together an international group of researchers involved in military, business, and health modeling and simulation, *Conceptual Modeling for Discrete-Event Simulation* presents a comprehensive view of the current state of the art in the field. The book addresses a host of issues, including: What is a conceptual model? How is conceptual modeling performed in general and in specific modeling domains? What is the role of established approaches in conceptual modeling? Each of the book's six parts focuses on a different aspect of conceptual modeling for simulation. The first section discusses the purpose and requirements of a conceptual model. The next set of

chapters provides frameworks and tools for conceptual modeling. The book then describes the use of soft systems methodology for model structuring as well as the application of software engineering methods and tools for model specification. After illustrating how conceptual modeling is adopted in the military and semiconductor manufacturing, the book concludes with a discussion on future research directions. This volume offers a broad, multifaceted account of the field by presenting diverse perspectives on what conceptual modeling entails. It also provides a basis upon which these perspectives can be compared.

This work adopts a multidisciplinary approach to corporate communication, including management communication, public relations, organizational behavior and change, marketing communication, and advertising. The many-faceted approach adopts the perspective of a practicing communications professional, emphasizes corporate branding, and focuses on an integrated approach to communication.