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Forensic Toxicology Nicholas T. Lappas, Courtney M. Lappas, 2021-10-22 Selected for Doody's Core Titles 2024 in Toxicology The second edition of *Forensic Toxicology Principles and Concepts* takes the reader back to the origins of forensic toxicology providing an overview of the largely unchanging principles of the discipline The text focuses on the major tenets in forensic toxicology including an introduction to the discipline principles of forensic toxicology including pharmacokinetics pharmacodynamics drug interactions and toxicogenomics fundamentals of forensic toxicology analysis types of interpretations based on analytical forensic toxicology results and reporting from the laboratory to the courtroom Also included in the second edition is a Unit focused on the forensic toxicology of individual drugs of abuse Includes significant emphasis on the fundamental principles and concepts of forensic toxicology Provides students with an introduction to the core tenets of the discipline focusing on the concepts strategies and methodologies utilized by professionals in the field Coauthored by a forensic toxicologist with over 40 years of experience as a professor who has taught graduate courses in forensic and analytical toxicology and who has served as a consultant and expert witness in civil and criminal cases

Introduction to Robust Estimation and Hypothesis Testing Rand R. Wilcox, 2012-01-12 This book focuses on the practical aspects of modern and robust statistical methods The increased accuracy and power of modern methods versus conventional approaches to the analysis of variance ANOVA and regression is remarkable Through a combination of theoretical developments improved and more flexible statistical methods and the power of the computer it is now possible to address problems with standard methods that seemed insurmountable only a few years ago Understanding Light Microscopy Jeremy Sanderson, 2019-03-28 Introduces readers to the enlightening world of the modern light microscope There have been rapid advances in science and technology over the last decade and the light microscope together with the information that it gives about the image has changed too Yet the fundamental principles of setting up and using a microscope rests upon unchanging physical principles that have been understood for years This informative practical full colour guide fills the gap between specialised edited texts on detailed research topics and introductory books which concentrate on an optical approach to the light microscope It also provides comprehensive coverage of confocal microscopy which has revolutionised light microscopy over the last few decades Written to help the reader understand set up and use the often very expensive and complex modern research light microscope properly *Understanding Light Microscopy* keeps mathematical formulae to a minimum containing and explaining them within boxes in the text Chapters provide in depth coverage of basic microscope optics and design ergonomics illumination diffraction and image formation reflected light polarised light and fluorescence microscopy deconvolution TIRF microscopy FRAP super resolution techniques biological and materials specimen preparation and more Gives a didactic introduction to the light microscope Encourages readers to use advanced fluorescence and confocal microscopes within a research institute or core microscopy facility Features full colour

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Survey Sampling Theory and Applications Raghunath Arnab, 2017-03-08 Survey Sampling Theory and Applications offers a comprehensive overview of survey sampling including the basics of sampling theory and practice as well as research based topics and examples of emerging trends The text is useful for basic and advanced survey sampling courses Many other books available for graduate students do not contain material on recent developments in the area of survey sampling The book covers a wide spectrum of topics on the subject including repetitive sampling over two occasions with varying probabilities ranked set sampling Fays method for balanced repeated replications mirror match bootstrap and controlled sampling procedures Many topics discussed here are not available in other text books In each section theories are illustrated with numerical examples At the end of each chapter theoretical as well as numerical exercises are given which can help graduate students Covers a wide spectrum of topics on survey sampling and statistics Serves as an ideal text for graduate students and researchers in survey sampling theory and applications Contains material on recent developments in survey sampling not covered in other books Illustrates theories using numerical examples and exercises

Tools in Fluvial Geomorphology G. Mathias Kondolf, Hervé Piégay, 2016-06-13 Fluvial Geomorphology studies the biophysical processes acting in rivers and the sediment patterns and landforms resulting from them It is a discipline of synthesis with roots in geology geography and river engineering and with strong interactions with allied fields such as ecology engineering and landscape architecture This book comprehensively reviews tools used in fluvial geomorphology at a level suitable to guide the selection of research methods for a given question Presenting an integrated approach to the interdisciplinary nature of the subject it provides guidance for researchers and professionals on the tools available to answer questions on river restoration and management Thoroughly updated since the first edition in 2003 by experts in their subfields the book presents state of the art tools that have revolutionized fluvial geomorphology in recent decades such as physical and numerical modelling remote sensing and GIS new field techniques advances in dating tracking and sourcing statistical approaches as well as more traditional methods such as the systems framework stratigraphic analysis form and flow characterisation and historical analysis This book Covers five main types of geomorphological questions and their associated tools historical framework spatial framework chemical physical and biological methods analysis of processes and forms and future understanding framework Provides guidance on advantages and limitations of different tools for different applications data sources equipment and supplies needed and case studies illustrating their application in an integrated perspective It is an essential resource for researchers and professional geomorphologists hydrologists geologists engineers planners and ecologists concerned with river management conservation and restoration It is a useful supplementary textbook for upper level undergraduate and graduate courses in Geography

Geology Environmental Science Civil and Environmental Engineering and interdisciplinary courses in river management and restoration *Measuring & Monitoring Plant Populations* Caryl L. Elzinga, Daniel W. Salzer, 1998 *Therapeutic Drug Monitoring Data* Amitava Dasgupta, Matthew Krasowski, 2019-09-14 *Therapeutic Drug Monitoring Data A Concise Guide* Fourth Edition serves as a ready resource of information on commonly monitored drugs that will help readers make decisions relating to the monitoring and interpretation of results It is an easy to read source of information on intended use pharmacokinetics therapeutic range and toxic concentrations as well as bioavailability disposition metabolism and the excretion of commonly monitored therapeutic drugs This fully updated fourth edition includes sections on new anticonvulsants anti depressant and anti HIV drugs new drugs for advanced cancer treatment and thoroughly updated chapters that address new pitfalls and problems in the lab Serves as a ready resource of information for commonly monitored drugs Presents a useful quick guide for those making decisions related to monitoring and interpretation of results Provides concise easily digestible content for clinical laboratory scientists toxicologists and clinicians **Data Science for Business and Decision Making** Luiz Paulo Favero, Patricia Belfiore, 2019-04-11 *Data Science for Business and Decision Making* covers both statistics and operations research while most competing textbooks focus on one or the other As a result the book more clearly defines the principles of business analytics for those who want to apply quantitative methods in their work Its emphasis reflects the importance of regression optimization and simulation for practitioners of business analytics Each chapter uses a didactic format that is followed by exercises and answers Freely accessible datasets enable students and professionals to work with Excel Stata Statistical Software and IBM SPSS Statistics Software Combines statistics and operations research modeling to teach the principles of business analytics Written for students who want to apply statistics optimization and multivariate modeling to gain competitive advantages in business Shows how powerful software packages such as SPSS and Stata can create graphical and numerical outputs *Additive Manufacturing Technology* Kun Zhou, 2022-12-20 *Additive Manufacturing Technology* Highly comprehensive resource covering all key aspects of the current developments of additive manufacturing *Additive Manufacturing Technology Design Optimization and Modeling* provides comprehensive and in depth knowledge of the latest advances in various additive manufacturing technologies for polymeric materials metals multi materials functionally graded materials and cell laden bio inks It also details the application of numerical modeling in facilitating the design and optimization of materials processes and printed parts in additive manufacturing The topics covered in this book include Fundamentals and applications of 4D printing 3D bioprinting of cell laden bio inks and multi material additive manufacturing Alloy design for metal additive manufacturing mechanisms of metallurgical defect formation and the mechanical properties of printed alloys Modified inherent strain method for the rapid prediction of residual stress and distortion within parts fabricated by additive manufacturing Modeling of the different stages in polymer and metal additive manufacturing processes including powder spreading melting and thermal stress evolution By

providing extensive coverage of highly relevant concepts and important topics in the field of additive manufacturing this book highlights its essential role in Industry 4.0 and serves as a valuable resource for scientists engineers and students in materials science engineering and biomedicine

Photocatalysts: Synthesis and Characterization Methods Mohammad Mansoob Khan, 2025-02-03 *Photocatalysts Synthesis and Characterization Methods* offers a systematic overview of the synthesis and characterization of photocatalysts using various methods and techniques This book focuses on synthesis methods nanostructure control activity enhancement strategies and characterization of semiconductor based nanostructures This book offers guidelines for designing novel semiconductor based photocatalysts with low cost and high efficiency to meet the demands of the efficient utilization of solar light for energy production environment remediation etc In addition this book has covered various latest and sophisticated characterization techniques This includes various spectroscopic physicochemical and electrochemical characterization techniques which help the researchers to understand the characteristics of the fabricated photocatalysts Covers systematically advanced synthesis and characterization methods and techniques Provides in depth understanding of controlled synthesis of photocatalysts specifically and nanomaterials in general Explains mechanisms of efficient synthesis

Rapid Sensory Profiling Techniques Julien Delarue, J. Ben Lawlor, 2022-12-01 *Rapid Sensory Profiling Techniques Applications in New Product Development and Consumer Research* Second Edition presents the latest findings and recommendations on the proper choice and use of rapid product profiling methods Each chapter is written by a key opinion leader on a specific method with discussions on theory pros cons and the application of each method that is demonstrated through a case study This valuable resource educates and empowers those working in research and development on how to meet shorter product turnaround times at lower cost and with no compromise on quality This book is not just needed by the scientific community it is an essential must have in an industry challenged by a speed to market mantra Includes overviews of method principles pros and cons and real case studies showing how to set up execute analyze and present findings to stakeholders Provides readers with a set of tools that are more rapid more agile and more cost efficient when compared to more traditional methods Educates and empowers those working in research and development on how to meet shorter product turnaround times

Barkhausen Noise for Non-destructive Testing and Materials Characterization in Low Carbon Steels Tu Le Manh, Jose Alberto Perez Benitez, Jose Hiram Espina Hernandez, Jose Manuel Hallen, 2020-06-11 *Barkhausen Noise for Nondestructive Testing and Materials Characterization in Low Carbon Steels* presents a balanced approach reviewing the disadvantages and advantages of using this technique and its comparison over other magnetic testing techniques In addition the book looks towards future applications of this technique in particular its industrial applications as a method for pipeline inspection current advantages and barriers to implementation The book is suitable for materials scientists researchers and engineers and may be applicable for those working in metallurgical plants Not only does the book discuss fundamentals it reviews recent discoveries such as the correlation between

magnetocrystalline energy and Barkhausen noise the modeling of this relationship and the application of this technique in the characterization of magnetic materials Provides detailed explanation for the stochastic and deterministic characteristics of Barkhausen noise Discusses principles of applying Barkhausen noise as a non destructive method and magnetic material characterization method Reviews the advantages and disadvantages of this non destructive testing technique and compares it to other competitive techniques

High Performance Programming for Soft Computing Oscar Humberto Montiel Ross, Roberto Sepulveda, 2014-02-04 This book examines the present and future of soft computer techniques It explains how to use the latest technological tools such as multicore processors and graphics processing units to implement highly efficient intelligent system methods using a general purpose computer

Human Population Genetics and Genomics Alan R. Templeton, 2018-11-08 Human Population Genetics and Genomics provides researchers students with knowledge on population genetics and relevant statistical approaches to help them become more effective users of modern genetic genomic and statistical tools In depth chapters offer thorough discussions of systems of mating genetic drift gene flow and subdivided populations human population history genotype and phenotype detecting selection units and targets of natural selection adaptation to temporally and spatially variable environments selection in age structured populations and genomics and society As human genetics and genomics research often employs tools and approaches derived from population genetics this book helps users understand the basic principles of these tools In addition studies often employ statistical approaches and analysis so an understanding of basic statistical theory is also needed Comprehensively explains the use of population genetics and genomics in medical applications and research Discusses the relevance of population genetics and genomics to major social issues including race and the dangers of modern eugenics proposals Provides an overview of how population genetics and genomics helps us understand where we came from as a species and how we evolved into who we are now

Scaling And Disordered Systems: International Workshop And Collection Of Articles Honoring Professor Antonio Coniglio On The Occasion Of His 60th Birthday Mohamed Daoud, Fereydoon Family, Hans J Herrmann, H Eugene Stanley, 2002-05-30 Investigation of the fractal and scaling properties of disordered systems has recently become a focus of great interest in research Disordered or amorphous materials like glasses polymers gels colloids ceramic superconductors and random alloys or magnets do not have a homogeneous microscopic structure The microscopic environment varies randomly from site to site in the system and this randomness adds to the complexity and the richness of the properties of these materials A particularly challenging aspect of random systems is their dynamical behavior Relaxation in disordered systems generally follows an unusual time dependent trajectory Applications of scaling and fractal concepts in disordered systems have become a broad area of interdisciplinary research involving studies of the physics chemistry mathematics biology and engineering aspects of random systems This book is intended for specialists as well as graduate and postdoctoral students working in condensed matter or statistical physics It provides state of the art information on the latest

developments in this important and timely topic The book is divided into three parts Part I deals with critical phenomena Part II is devoted to discussion of slow dynamics and Part III involves the application of scaling concepts to random systems The effects of disorder at the mesoscopic scale as well as the latest results on the dynamical properties of disordered systems are presented In particular recent developments in static and dynamic scaling theories and applications of fractal concepts to disordered systems are discussed

View-based 3-D Object Retrieval Yue Gao,Qionghai Dai,2014-12-04 Content based 3 D object retrieval has attracted extensive attention recently and has applications in a variety of fields such as computer aided design tele medicine mobile multimedia virtual reality and entertainment The development of efficient and effective content based 3 D object retrieval techniques has enabled the use of fast 3 D reconstruction and model design Recent technical progress such as the development of camera technologies has made it possible to capture the views of 3 D objects As a result view based 3 D object retrieval has become an essential but challenging research topic View based 3 D Object Retrieval introduces and discusses the fundamental challenges in view based 3 D object retrieval proposes a collection of selected state of the art methods for accomplishing this task developed by the authors and summarizes recent achievements in view based 3 D object retrieval Part I presents an Introduction to View based 3 D Object Retrieval Part II discusses View Extraction Selection and Representation Part III provides a deep dive into View Based 3 D Object Comparison and Part IV looks at future research and developments including Big Data application and geographical location based applications Systematically introduces view based 3 D object retrieval including problem definitions and settings methodologies and benchmark testing beds Discusses several key challenges in view based 3 D object retrieval and introduces the state of the art solutions Presents the progression from general image retrieval techniques to view based 3 D object retrieval Introduces future research efforts in the areas of Big Data feature extraction and geographical location based applications

A Handbook for Sensory and Consumer-Driven New Product Development Maurice O'Sullivan,2016-09-16 A Handbook for Sensory and Consumer Driven New Product Development explores traditional and well established sensory methods difference descriptive and affective as well as taking a novel approach to product development and the use of new methods and recent innovations This book investigates the use of these established and new sensory methods particularly hedonic methods coupled with descriptive methods traditional and rapid through multivariate data analytical interfaces in the process of optimizing food and beverage products effectively in a strategically defined manner The first part of the book covers the sensory methods which are used by sensory scientists and product developers including established and new and innovative methods The second section investigates the product development process and how the application of sensory analysis instrumental methods and multivariate data analysis can improve new product development including packaging optimization and shelf life The final section defines the important sensory criteria and modalities of different food and beverage products including Dairy Meat Confectionary Bakery and Beverage alcoholic and non alcoholic and presents case

studies indicating how the methods described in the first two sections have been successfully and innovatively applied to these different foods and beverages The book is written to be of value to new product development researchers working in large corporations SMEs micro small or medium sized enterprises as well as being accessible to the novice starting up their own business The innovative technologies and methods described are less expensive than some more traditional practices and aim to be quick and effective in assisting products to market Sensory testing is critical for new product development optimization ingredient substitution and devising appropriate packaging and shelf life as well as comparing foods or beverages to competitor s products Presents novel and effective sensory based methods for new product development two related fields that are often covered separately Provides accessible useful guidance to the new product developer working in a large multi national food company as well as novices starting up a new business Offers case studies that provide examples of how these methods have been applied to real product development by practitioners in a wide range of organizations Investigates how the application of sensory analysis can improve new product development including packaging optimization

Optical Properties of Photonic Structures Mikhail F. Limonov, Richard De La Rue, 2016-04-19 The collection of articles in this book offers a penetrating shaft into the still burgeoning subject of light propagation and localization in photonic crystals and disordered media While the subject has its origins in physics it has broad significance and applicability in disciplines such as engineering chemistry mathematics and medicine Unli , **Quantum Machine Learning** Peter Wittek, 2014-09-10 Quantum Machine Learning bridges the gap between abstract developments in quantum computing and the applied research on machine learning Paring down the complexity of the disciplines involved it focuses on providing a synthesis that explains the most important machine learning algorithms in a quantum framework Theoretical advances in quantum computing are hard to follow for computer scientists and sometimes even for researchers involved in the field The lack of a step by step guide hampers the broader understanding of this emergent interdisciplinary body of research Quantum Machine Learning sets the scene for a deeper understanding of the subject for readers of different backgrounds The author has carefully constructed a clear comparison of classical learning algorithms and their quantum counterparts thus making differences in computational complexity and learning performance apparent This book synthesizes a broad array of research into a manageable and concise presentation with practical examples and applications Bridges the gap between abstract developments in quantum computing with the applied research on machine learning Provides the theoretical minimum of machine learning quantum mechanics and quantum computing Gives step by step guidance to a broader understanding of this emergent interdisciplinary body of research

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