

Nutrition Science And Application 2nd Edition

Financial Analysis, Planning And Forecasting: Theory And Application (2nd Edition) Combinatorial Group Testing And Its Applications (2nd Edition) Topics In Bifurcation Theory And Applications (2nd Edition) Rapid Prototyping: Principles And Applications (2nd Edition) (With Companion Cd-rom) Introduction To Stochastic Calculus With Applications (2nd Edition) Ad Hoc And Sensor Networks: Theory And Applications (2nd Edition) Microbial Biotechnology: Principles And Applications (2nd Edition) Data Mining With Decision Trees: Theory And Applications (2nd Edition) Remote Sensing : Principles and Applications, 2nd Ed. Wireless Positioning Technologies and Applications, Second Edition Complexity Approach To Sustainability, A: Theory And Application (Second Edition) The CRC Handbook of Mechanical Engineering, Second Edition General Management, 2nd edition Multiple Testing Procedures with Applications to Genomics Oracle Database 11g Oracle Real Application Clusters Handbook, 2nd Edition The Aids and Their Application ... 2nd Edition Manual of Law for the Panjab ... 2nd Edition Correlated Data Analysis: Modeling, Analytics, and Applications Role Development in Professional Nursing Practice Advanced Engineering Mathematics Alice C Lee Ding-zhu Du Moritz Adelmeyer Chee Kai Chua Fima C Klebaner Carlos De Moraes Cordeiro Yuan Kun Lee Oded Z Maimon A.N. Patel Alan Bensky Angela Espinosa J. Kroon Sandrine Dudoit K Gopalakrishnan Charles Guy CUBITT (Hon.) C. H. Spitta Xue-Kun Song Kathleen Masters H. C. Taneja Financial Analysis, Planning And Forecasting: Theory And Application (2nd Edition) Combinatorial Group Testing And Its Applications (2nd Edition) Topics In Bifurcation Theory And Applications (2nd Edition) Rapid Prototyping: Principles And Applications (2nd Edition) (With Companion Cd-rom) Introduction To Stochastic Calculus With Applications (2nd Edition) Ad Hoc And Sensor Networks: Theory And Applications (2nd Edition) Microbial Biotechnology: Principles And Applications (2nd Edition) Data Mining With Decision Trees: Theory And Applications (2nd Edition) Remote Sensing : Principles and Applications, 2nd Ed. Wireless Positioning Technologies and Applications, Second Edition Complexity Approach To Sustainability, A: Theory And Application (Second Edition) The CRC Handbook of Mechanical Engineering, Second Edition General Management, 2nd edition Multiple Testing Procedures with Applications to Genomics Oracle Database 11g Oracle Real Application Clusters Handbook, 2nd Edition The Aids and Their Application ... 2nd Edition Manual of Law for the Panjab ... 2nd Edition Correlated Data Analysis: Modeling, Analytics, and Applications Role Development in Professional Nursing Practice Advanced Engineering Mathematics *Alice C Lee Ding-zhu Du Moritz Adelmeyer Chee Kai Chua Fima C Klebaner Carlos De Moraes Cordeiro Yuan Kun Lee Oded Z Maimon A.N. Patel Alan Bensky Angela*

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group testing has been used in medical chemical and electrical testing coding drug screening pollution control multiaccess channel management and recently in data verification clone library screening and aids testing the mathematical model can be either combinatorial or probabilistic this book summarizes all important results under the combinatorial model and demonstrates their applications in real problems some other search problems including the famous counterfeit coins problem are also studied in depth there are two reasons for publishing a second edition of this book the first is the usual need to update the text after six years and correct errors the second and more important reason is to accommodate the recent sudden growth of interest in applying the idea of group testing to clone library screening this development is much more than just a new application since the new application brings with it new objectives which require a new twist of theory it also embraces the growing importance of two topics nonadaptive algorithms and error tolerance two new chapters one on clone library screening and the other on error tolerance have been added also included is a new chapter on counterfeit coins the most famous search problem historically which recently drew on an unexpected connection to some deep mathematical theory to yield new results finally the chapters have been reorganized into parts to provide focuses and perspectives

this textbook presents the most efficient analytical techniques in the local bifurcation theory of vector fields it is centered on the theory of normal forms and its applications including interaction with symmetries the first part of the book reviews the center manifold reduction and introduces normal forms with complete proofs basic bifurcations are studied together with bifurcations in the presence of symmetries special attention is given to examples with reversible vector fields including the physical example given by the water waves in this second edition many problems with detailed

solutions are added at the end of the first part some systems being in infinite dimensions the second part deals with the couette taylor hydrodynamical stability problem between concentric rotating cylinders the spatial structure of various steady or unsteady solutions results directly from the analysis of the reduced system on a center manifold in this part we also study bifurcations simple here from group orbits of solutions in an elementary way avoiding heavy algebra the third part analyzes bifurcations from time periodic solutions of autonomous vector fields a normal form theory is developed covering all cases and emphasizing a partial floquet reduction theory which is applicable in infinite dimensions studies of period doubling as well as arnold's resonance tongues are included in this part

rapid prototyping rp has revolutionized the landscape of how prototypes and products are made and small batch manufacturing carried out this book gives a comprehensive coverage of rp and rapid tooling processes data formats and applications a cd rom included in the book presents rp and its principles in an interactive way to augment the learning experience special features

this book presents a concise treatment of stochastic calculus and its applications it gives a simple but rigorous treatment of the subject including a range of advanced topics it is useful for practitioners who use advanced theoretical results it covers advanced applications such as models in mathematical finance biology and engineering self contained and unified in presentation the book contains many solved examples and exercises it may be used as a textbook by advanced undergraduates and graduate students in stochastic calculus and financial mathematics it is also suitable for practitioners who wish to gain an understanding or working knowledge of the subject for mathematicians this book could be a first text on stochastic calculus it is good companion to more advanced texts by a way of examples and exercises for people from other fields it provides a way to gain a working knowledge of stochastic calculus it shows all readers the applications of stochastic calculus methods and takes readers to the technical level required in research and sophisticated modelling this second edition contains a new chapter on bonds interest rates and their options new materials include more worked out examples in all chapters best estimators more results on change of time change of measure random measures new results on exotic options fx options stochastic and implied volatility models of the age dependent branching process and the stochastic lotka volterra model in biology non linear filtering in engineering and five new figures instructors can obtain slides of the text from the author a

this book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field it emphasizes that there is a major interdependence among various layers of the network protocol stack contrary to wired or even one hop cellular networks the lack of a fixed infrastructure the inherent mobility the wireless channel and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer all existing

textbooks on the subject often focus on a specific aspect of the technology and fail to provide critical insights on cross layer interdependencies to fully understand these intriguing networks one need to grasp specific solutions individually and also the many interdependencies and cross layer interactions

in the second edition of this bestselling textbook new materials have been added including a new chapter on real time polymerase chain reaction rtPCR and a chapter on fungal solid state cultivation there already exist a number of excellent general textbooks on microbiology and biotechnology that deal with the basic principles of microbial biotechnology to complement them this book focuses on the various applications of microbial biotechnological principles a teaching based format is adopted whereby working problems as well as answers to frequently asked questions supplement the main text the book also includes real life examples of how the application of microbial biotechnological principles has achieved breakthroughs in both research and industrial production although written for polytechnic students and undergraduates the book contains sufficient information to be used as a reference for postgraduate students and lecturers it may also serve as a resource book for corporate planners managers and applied research personnel

decision trees have become one of the most powerful and popular approaches in knowledge discovery and data mining it is the science of exploring large and complex bodies of data in order to discover useful patterns decision tree learning continues to evolve over time existing methods are constantly being improved and new methods introduced this 2nd edition is dedicated entirely to the field of decision trees in data mining to cover all aspects of this important technique as well as improved or new methods and techniques developed after the publication of our first edition in this new edition all chapters have been revised and new topics brought in new topics include cost sensitive active learning learning with uncertain and imbalanced data using decision trees beyond classification tasks privacy preserving decision tree learning lessons learned from comparative studies and learning decision trees for big data a walk through guide to existing open source data mining software is also included in this edition this book invites readers to explore the many benefits in data mining that decision trees offer

in india like the other countries of the world air borne and space borne remote sensing techniques is being used in the research planning and development this book deals with the basic principles of remote sensing such as definition and types of remote sensing electromagnetic radiation and its interaction with matter types of sensors and platforms data products and visual and digital analysis and interpretation techniques the applications of remote sensing in the appraisal and management of natural resources temporal change detection in various terrain features and environmental problems

this updated second edition of the artech house book wireless positioning technologies and applications presents comprehensive coverage of wireless positioning principles and technologies for engineers involved in using or developing wireless location applications this book explains the basics of gps and demonstrates the applications of fundamental distance measuring principles this edition includes updated and expanded chapters on satellite navigation ofdm orthogonal frequency division multiplex tdoa location facilities in 3gpp lte specifications carrier phase measurements and dgps wireless sensor networks mimo positions inertial navigation and data fusion moreover complete coverage of cellular network infrastructure for location including 4g lte and up to date bluetooth location in short range wireless networks is presented as well as modernization programs used for gps accuracy and reliability this book helps readers assess available positioning methods for new applications locate applicable sources for a given technology and simply difficult engineering and mathematical concepts

business sustainability and sustainable development are of great importance in modern day socio economic study despite this the impact of recent contributions from systems and complexity sciences in addressing these issues has not yet filtered down into effective practice this book argues that there is a need for urgency in the application of analytical tools which embody the principles of complexity management in sustainability research in particular in the context of the global climate change the approach presented is based on the concept of clusters of whole systems coming together through collaboration in order to create larger wholes capable of dealing with the issues facing our socio economic environmental systems in this updated second edition the authors further clarify the viability and sustainability v s approach and the criteria and framework needed for sustainable governance it includes a more detailed perspective on the implications of the v s approach to businesses and networks towards changes in structure strategy and processes inspired by specific case studies key additions include a criteria for designing more viable and sustainable self governed organizations the methodologies and tools to design and implement self transformations towards sustainability and how these tools support sustainability management individually and globally for businesses and society

during the past 20 years the field of mechanical engineering has undergone enormous changes these changes have been driven by many factors including the development of computer technology worldwide competition in industry improvements in the flow of information satellite communication real time monitoring increased energy efficiency robotics automatic control increased sensitivity to environmental impacts of human activities advances in design and manufacturing methods these developments have put more stress on mechanical engineering education making it increasingly difficult to cover all the topics that a professional engineer will need in his or her career as a result of these developments there has been a growing need for a handbook that can serve the professional community by providing relevant background and current information in the field of mechanical engineering the crc handbook of mechanical engineering serves the needs of the professional engineer as a resource of information into

the next century

this book establishes the theoretical foundations of a general methodology for multiple hypothesis testing and discusses its software implementation in r and sas these are applied to a range of problems in biomedical and genomic research including identification of differentially expressed and co expressed genes in high throughput gene expression experiments tests of association between gene expression measures and biological annotation metadata sequence analysis and genetic mapping of complex traits using single nucleotide polymorphisms the procedures are based on a test statistics joint null distribution and provide type i error control in testing problems involving general data generating distributions null hypotheses and test statistics

master oracle real application clusters maintain a dynamic enterprise computing infrastructure with expert instruction from an oracle ace oracle database 11g oracle real application clusters handbook second edition has been fully revised and updated to cover the latest tools and features find out how to prepare your hardware deploy oracle real application clusters optimize data integrity and integrate seamless failover protection troubleshooting performance tuning and application development are also discussed in this comprehensive oracle press guide install and configure oracle real application clusters configure and manage diskgroups using oracle automatic storage management work with services voting disks and oracle clusterware repository look under the hood of the cache fusion and global resource directory operations in oracle real applications clusters explore the internal workings of backup and recovery in oracle real application clusters employ workload balancing and the transparent application failover feature of an oracle database get complete coverage of stretch clusters also known as metro clusters troubleshoot oracle clusterware using the most advanced diagnostics available develop custom oracle real application clusters applications

this book covers recent developments in correlated data analysis it utilizes the class of dispersion models as marginal components in the formulation of joint models for correlated data this enables the book to cover a broader range of data types than the traditional generalized linear models the reader is provided with a systematic treatment for the topic of estimating functions and both generalized estimating equations gee and quadratic inference functions qif are studied as special cases in addition to the discussions on marginal models and mixed effects models this book covers new topics on joint regression analysis based on gaussian copulas

designed for use in sequential professional development courses across the curriculum role development in professional nursing practice covers role development of the professional nurse as it occurs in three developmental stages moving from the simple to the more complex nurse as individual nurse client relationships and nurse as member of the health care team

the text has been divided in two volumes volume i ch 1 13 volume ii ch 14 22 in addition to the review material and some basic topics as discussed in the opening chapter the main text in volume i covers topics on infinite series differential and integral calculus matrices vector calculus ordinary differential equations special functions and laplace transforms volume ii covers topics on complex analysis fourier analysis partial differential equations and statistics the present book has numerous distinguishing features over the already existing books on the same topic the chapters have been planned to create interest among the readers to study and apply the mathematical tools the subject has been presented in a very lucid and precise manner with a wide variety of examples and exercises which would eventually help the reader for hassle free study

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