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The Mathematics of Infinity

A Guide to Great Ideas

John Wiley & Sons Praise for the First Edition ". . . an enchanting book for those people in computer science or mathematics who are fascinated by the concept of infinity."—Computing Reviews ". . . a very well written introduction to set theory . . . easy to read and well suited for self-study . . . highly recommended."—Choice The concept of infinity has fascinated and confused mankind for centuries with theories and ideas that cause even seasoned mathematicians to wonder. The Mathematics of Infinity: A Guide to Great Ideas, Second Edition uniquely explores how we can manipulate these ideas when our common sense rebels at the conclusions we are drawing. Continuing to draw from his extensive work on the subject, the author provides a user-friendly presentation that avoids unnecessary, in-depth mathematical rigor. This Second Edition provides important coverage of logic and sets, elements and predicates, cardinals as ordinals, and mathematical physics. Classic arguments and illustrative examples are provided throughout the book and are accompanied by a gradual progression of sophisticated notions designed to stun readers' intuitive view of the world. With an accessible and balanced treatment of both concepts and theory, the book focuses on the following topics: Logic, sets, and functions Prime numbers Counting infinite sets Well ordered sets Infinite cardinals Logic and meta-mathematics Inductions and numbers Presenting an intriguing account of the notions of infinity, The Mathematics of Infinity: A Guide to Great Ideas, Second Edition is an insightful supplement for mathematics courses on set theory at the undergraduate level. The book also serves as a fascinating reference for mathematically inclined individuals who are interested in learning about the world of counterintuitive mathematics.

Urban Pollution

Science and Management

Wiley-Blackwell Multidisciplinary treatment of the urgent issues surrounding urban pollution worldwide Written by some of the top experts on the subject in the world, this book presents the diverse, complex and current themes of the urban pollution debate across the built environment, urban development and management continuum. It uniquely combines the science of urban pollution with associated policy that seeks to control it, and includes a comprehensive collection of international case studies showing the status of the problem worldwide. Urban Pollution: Science and Management is a multifaceted collection of chapters that address the contemporary concomitant issues of increasing urban living and associated issues with contamination by offering solutions specifically for the built environment. It covers: the impacts of urban pollution; historical urban pollution; evolution of air quality policy and management in urban areas; ground gases in urban environments; bioaccessibility of trace elements in urban environments; urban wastewater collection, treatment, and disposal; living green roofs; light pollution; river ecology; greywater recycling and reuse; containment of pollution from urban waste disposal sites; bioremediation in urban pollution mitigation; air quality monitoring; urban pollution in China and India; urban planning in sub–Saharan Africa and more. Deals with both the science and the relevant policy and management issues Examines the main sources of urban pollution Covers both first-world and developing world urban pollution issues Integrates the latest scientific research with practical case studies Deals with both legacy and emerging pollutants and their effects The integration of physical and environmental sciences, combined with social, economic and political sciences and the use of case studies makes Urban Pollution: Science and Management an incredibly useful resource for policy experts, scientists, engineers and those interested in the subject.

Net.journal Directory

Bioremediation and Natural Attenuation

Process Fundamentals and Mathematical Models

John Wiley & Sons A groundbreaking text and professional resource on naturalattenuation technology Natural attenuation is rapidly becoming a widely used approachto manage groundwater and soil contamination by hazardoussubstances in petroleum-product releases and leachate fromhazardous waste sites and landfills. This book provides, under onecover, the current methodologies needed by groundwater scientistsand engineers in their efforts to evaluate subsurface contaminationproblems, to estimate risk to human health and ecosystems throughmathematical models, and to design and formulate appropriateremediation strategies. Incorporating the authors' extensive backgrounds as educators,researchers, and consultants in environmental biotechnology andhydrogeology, the text emphasizes new concepts and recent advancesin the science, including: Quantification of the role of microbes in naturalattenuation Biodegradation and chemical transformation principles Immobilization and phase change Biotransformation mechanisms Groundwater flow and contaminant transport Analytical models for contaminant transport and reactionprocesses Numerical modeling of contaminant transport, transformation,and degradation Detailed descriptions of fundamental processes, characterizationapproaches, and analytical and numerical methods tied to relevantreal-world applications make Bioremediation and NaturalAttenuation: Process Fundamentals and Mathematical Models botha timely course text in hydrogeology and environmental engineeringand a valuable reference for anyone in the groundwater or riskassessment professions.

The Theory of Quantum Torus Knots

Lulu.com A detailed mathematical derivation of space curves is presented that links the diverse fields of superfluids, quantum mechanics, and hydrodynamics by a common foundation. The basic mathematical building block is called the theory of quantum torus knots (QTK).

Mathematical Bioeconomics

The Optimal Management of Renewable Resources

New York ; Toronto : Wiley The Wiley-Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation. With these new unabridged softcover volumes, Wiley hopes to extend the lives of these works by making them available to future generations of statisticians, mathematicians, and scientists. Mathematical Bioeconomics: Optimal Management of Renewable Resources, Second Edition serves as an introduction to the theory of biological conservation, including a wealth of applications to the fishery and forestry industries. The mathematical modeling of the productive aspects of renewable-resource management is explained, featuring both economic and biological factors, with much attention paid to the optimal use of resource stocks over time. This Second Edition provides new chapters on the theory of resource regulation and on stochastic resource models, new sections on irreversible investment, game-theoretic models, dynamic programming, and an expanded bibliography. Book jacket.

Random Graphs

John Wiley & Sons A unified, modern treatment of the theory of randomgraphs-including recent results and techniques Since its inception in the 1960s, the theory of random graphs hasevolved into a dynamic branch of discrete mathematics. Yet despitethe lively activity and important applications, the lastcomprehensive volume on the subject is Bollobas's well-known 1985book. Poised to stimulate research for years to come, this new workcovers developments of the last decade, providing a much-needed,modern overview of this fast-growing area of combinatorics. Writtenby three highly respected members of the discrete mathematicscommunity, the book incorporates many disparate results from acrossthe literature, including results obtained by the authors and somecompletely new results. Current tools and techniques are alsothoroughly emphasized. Clear, easily accessible presentations makeRandom Graphs an ideal introduction for newcomers to the field andan excellent reference for scientists interested in discretemathematics and theoretical computer science. Special featuresinclude: * A focus on the fundamental theory as well as basic models ofrandom graphs * A detailed description of the phase transition phenomenon * Easy-to-apply exponential inequalities for large deviationbounds * An extensive study of the problem of containing smallsubgraphs * Results by Bollobas and others on the chromatic number of randomgraphs * The result by Robinson and Wormald on the existence of Hamiltoncycles in random regular graphs * A gentle introduction to the zero-one laws * Ample exercises, figures, and bibliographic references

The Structure of Atmospheric Turbulence

Algorithmic Number Theory

9th International Symposium, ANTS-IX, Nancy, France, July 19-23, 2010, Proceedings

Springer This book constitutes the refereed proceedings of the 9th International Algorithmic Number Theory Symposium, ANTS 2010, held in Nancy, France, in July 2010. The 25 revised full papers presented together with 5 invited papers were carefully reviewed and selected for inclusion in the book. The papers are devoted to algorithmic aspects of number theory, including elementary number theory, algebraic number theory, analytic number theory, geometry of numbers, algebraic geometry, finite fields, and cryptography.

Cellular Automata

A Discrete View of the World

John Wiley & Sons An accessible and multidisciplinaryintroduction to cellularautomata As the applicability of cellular automata broadens andtechnology advances, there is a need for a concise, yet thorough,resource that lays the foundation of key cellularautomata rules andapplications. In recent years, Stephen Wolfram's A New Kind ofScience has brought the modeling power that lies in cellularautomata to the attentionof the scientific world, and now, CellularAutomata: A Discrete View of the World presents all the depth,analysis, and applicability of the classic Wolfram text in

astraightforward, introductory manner. This book offers anintroduction to cellular automata as a constructive method formodeling complex systems where patterns of self-organizationarising from simple rules are revealed in phenomena that existacross a wide array of subject areas, including mathematics,physics, economics, and the social sciences. The book begins with a preliminary introduction to cellularautomata, including a brief history of the topic along withcoverage of sub-topics such as randomness, dimension, information,entropy, and fractals. The author then provides a completediscussion of dynamical systems and chaos due to their closeconnection with cellular automata and includes chapters that focusexclusively on one- and two-dimensional cellular automata. The nextand most fascinating area of discussion is the application of thesetypes of cellular automata in order to understand the complexbehavior that occurs in natural phenomena. Finally, the continuallyevolving topic of complexity is discussed with a focus on how toproperly define, identify, and marvel at its manifestations invarious environments. The author's focus on the most important principles of cellularautomata, combined with his ability to present complex material inan easy-to-follow style, makes this book a very approachable andinclusive source for understanding the concepts and applications ofcellular automata. The highly visual nature of the subject isaccented with over 200 illustrations, including an eight-page colorinsert, which provide vivid representations of the cellularautomata under discussion. Readers also have the opportunity tofollow and understand the models depicted throughout the text andcreate their own cellular automata using Java applets and simplecomputer code, which are available via the book's FTP site. Thisbook serves as a valuable resource for undergraduate and graduatestudents in the physical, biological, and social sciences and mayalso be of interest to any reader with a scientific or basicmathematical background.

Optimization Theory

The Finite Dimensional Case

Krieger Publishing Company

Elements of Information Theory

John Wiley & Sons The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book's tradition of clear, thought-provoking instruction. Readers are provided once again with an instructive mix of mathematics, physics, statistics, and information theory. All the essential topics in information theory are covered in detail, including entropy, data compression, channel capacity, rate distortion, network information theory, and hypothesis testing. The authors provide readers with a solid understanding of the underlying theory and applications. Problem sets and a telegraphic summary at the end of each chapter further assist readers. The historical notes that follow each chapter recap the main points. The Second Edition features: * Chapters reorganized to improve teaching * 200 new problems * New material on source coding, portfolio theory, and feedback capacity * Updated references Now current and enhanced, the Second Edition of Elements of Information Theory remains the ideal textbook for upper-level undergraduate and graduate courses in electrical engineering, statistics, and telecommunications.

Astronomy

PediaPress

Solar System

PediaPress

The Sun, Planets, and Dwarf Planets

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Progress and Visions in Quantum Theory in View of Gravity

Bridging Foundations of Physics and Mathematics

Springer Nature This book focuses on a critical discussion of the status and prospects of current approaches in quantum mechanics and quantum field theory, in particular concerning gravity. It contains a carefully selected cross-section of lectures and discussions at the seventh conference "Progress and Visions in Quantum Theory in View of Gravity" which took place in fall 2018 at the Max Planck Institute for Mathematics in the Sciences in Leipzig. In contrast to usual proceeding volumes, instead of reporting on the most recent technical results, contributors were asked to discuss visions and new ideas in foundational physics, in particular concerning foundations of quantum field theory. A special focus has been put on the question of which physical principles of quantum (field) theory can be considered fundamental in view of gravity. The book is mainly addressed to mathematicians and physicists who are interested in fundamental questions of mathematical physics. It allows the reader to obtain a broad and up-to-date overview of a fascinating active research area.

Statistics on Spheres

Wiley-Interscience Statistical methods based on the center of Mass of the sample; Statistical methods based on the moments of inertia of the sample.

Groups and Characters

John Wiley & Sons An authoritative, full-year course on both group theory and ordinary character theory--essential tools for mathematics and the physical sciences One of the few treatments available combining both group theory and character theory, Groups and Characters is an effective general textbook on these two fundamentally connected subjects. Presuming only a basic knowledge of abstract algebra as in a first-year graduate course, the text opens with a review of background material and then guides readers carefully through several of the most important aspects of groups and characters, concentrating mainly on finite groups. Challenging yet accessible, Groups and Characters features: * An extensive collection of examples surveying many different types of groups, including Sylow subgroups of symmetric groups, affine groups of fields, the Mathieu groups, and symplectic groups * A thorough, easy-to-follow discussion of Polya-Redfield enumeration, with applications to combinatorics * Inclusive explorations of the transfer function and normal complements, induction and restriction of characters, Clifford theory, characters of symmetric and alternating groups, Frobenius groups, and the Schur index * Illuminating accounts of several computational aspects of group theory, such as the Schreier-Sims algorithm, Todd-Coxeter coset enumeration, and algorithms for generating character tables As valuable as Groups and Characters will prove as a textbook for mathematicians, it has broader applications. With chapters suitable for use as independent review units, along with a full bibliography and index, it will be a dependable general reference for chemists, physicists, and crystallographers.

Air Quality Monitoring, Assessment and Management

BoD – Books on Demand Human beings need to breathe oxygen diluted in certain quantity of inert gas for living. In the atmosphere, there is a gas mixture of, mainly, oxygen and nitrogen, in appropriate proportions. However, the air also contains other gases, vapours and aerosols that humans incorporate when breathing and whose composition and concentration vary spatially. Some of these are physiologically inert. Air pollution has become a problem of major concern in the last few decades as it has caused negative effects on human health, nature and properties. This book presents the results of research studies carried out by international researchers in seventeen chapters which can be grouped into two main sections: a) air quality monitoring and b) air quality assessment and management, and serves as a source of material for all those involved in the field, whether as a student, scientific researcher, industrialist, consultant, or government agency with responsibility in this area.

The British National Bibliography

Guide to Information Sources in Mathematics and Statistics

Libraries Unlimited Publisher description: This book is a reference for librarians, mathematicians, and statisticians involved in college and research level mathematics and statistics in the 21st century. Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics. Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics. These resources are grouped by material type. Publication dates range from the 1800's onwards. Hundreds of electronic resources-some online, both dynamic and static, some in fixed media, are listed among the paper resources. A majority of listed electronic resources are free.

New Frontiers in Asymmetric Catalysis

John Wiley & Sons A compilation of recent advances and applications in asymmetriccatalysis The field of asymmetric catalysis has grown rapidly and plays akey role in drug discovery and pharmaceuticals. New Frontiers inAsymmetric Catalysis gives readers a fundamental understandingof the concepts and applications of asymmetric catalysis reactionsand discusses the latest developments and findings. Withcontributions from preeminent scientists in their respectivefields, it covers: "Rational" ligand design, which is critically dependent on thereaction type (reduction, oxidation, and C-C bond formation) Recent findings on activation of C-H bonds, C-C bonds, and smallmolecules (C=O, HCN, RN=C, and CO2) and the latest developments onC-C bond reorganization, such as metathesis Advances in "chirally economical" non-linear phenomena, racemiccatalysis, and autocatalysis Some of the recent discoveries that have led to a renaissance inthe field of organocatalysis, including the development of chiralBrönstead acids and Lewis acidic metals bearing the conjugatebase of the Brönstead acids as the ligands and the chiralbi-functional acid/base catalysts The book ends with a thought-provoking perspective on the futureof asymmetric catalysis that addresses both the challenges and theunlimited potential in this burgeoning field. This is anauthoritative, up-to-date reference for organic chemists inacademia, government, and industries, including pharmaceuticals,biotech, fine chemicals, polymers, and agriculture. It is also anexcellent textbook for graduate students studying advanced organicchemistry or chemical synthesis.

Radiative Processes in Astrophysics

John Wiley & Sons Radiative Processes in Astrophysics: This clear, straightforward, and fundamental introduction is designed to present-from a physicist's point of view-radiation processes and their applications to astrophysical phenomena and space science. It covers such topics as radiative transfer theory, relativistic covariance and kinematics, bremsstrahlung radiation, synchrotron radiation, Compton scattering, some plasma effects, and radiative transitions in atoms. Discussion begins with first principles, physically motivating and deriving all results rather than merely presenting finished formulae. However, a reasonably good physics background (introductory quantum mechanics, intermediate electromagnetic theory, special relativity, and some statistical mechanics) is required. Much of this prerequisite material is provided by brief reviews, making the book a self-contained reference for workers in the field as well as the ideal text for senior or first-year graduate students of astronomy, astrophysics, and related physics courses. Radiative Processes in Astrophysics also contains about 75 problems, with solutions, illustrating applications of the material and methods for calculating results. This important and integral section emphasizes physical intuition by presenting important results that are used throughout the main text; it is here that most of the practical astrophysical applications become apparent.

Linear Models in Statistics

John Wiley & Sons The essential introduction to the theory and application of linear models—now in a valuable new edition Since most advanced statistical tools are generalizations of the linear model, it is neces-sary to first master the linear model in order to move forward to more advanced concepts. The linear model remains the main tool of the applied statistician and is central to the training of any statistician regardless of whether the focus is applied or theoretical. This completely revised and updated new edition successfully develops the basic theory of linear models for regression, analysis of variance, analysis of covariance, and linear mixed models. Recent advances in the methodology related to linear mixed models, generalized linear models, and the Bayesian linear model are also addressed. Linear Models in Statistics, Second Edition includes full coverage of advanced topics, such as mixed and generalized linear models, Bayesian linear models, two-way models with empty cells, geometry of least squares, vector-matrix calculus, simultaneous inference, and logistic and nonlinear regression. Algebraic, geometrical, frequentist, and Bayesian approaches to both the inference of linear models and the analysis of variance are also illustrated. Through the expansion of relevant material and the inclusion of the latest technological developments in the field, this book provides readers with the theoretical foundation to correctly interpret computer software output as well as effectively use, customize, and understand linear models. This modern Second Edition features: New chapters on Bayesian linear models as well as random and mixed linear models Expanded discussion of two-way models with empty cells Additional sections on the geometry of least squares Updated coverage of

simultaneous inference The book is complemented with easy-to-read proofs, real data sets, and an extensive bibliography. A thorough review of the requisite matrix algebra has been addedfor transitional purposes, and numerous theoretical and applied problems have been incorporated with selected answers provided at the end of the book. A related Web site includes additional data sets and SAS® code for all numerical examples. Linear Model in Statistics, Second Edition is a must-have book for courses in statistics, biostatistics, and mathematics at the upper-undergraduate and graduate levels. It is also an invaluable reference for researchers who need to gain a better understanding of regression and analysis of variance.

Theory of Superconductivity

Mesoscale Meteorological Modeling

Academic Press The 3rd edition of Mesoscale Meteorological Modeling is a fully revised resource for researchers and practitioners in the growing field of meteorological modeling at the mesoscale. Pielke has enhanced the new edition by quantifying model capability (uncertainty) by a detailed evaluation of the assumptions of parameterization and error propagation. Mesoscale models are applied in a wide variety of studies, including weather prediction, regional and local climate assessments, and air pollution investigations. Broad expansion of the concepts of parameterization and parameterization methodology Addition of new modeling approaches, including modeling summaries and summaries of data sets All-new section on dynamic downscaling

Connecting America

The National Broadband Plan

DIANE Publishing Broadband is the great infrastructure challenge of the early 21st century. Broadband is a foundation for economic growth, job creation, global competitiveness and a better way of life. The number of Americans who have broadband at home has grown from 8 million in 2000 to nearly 200 million last year. But. 100 million Americans do not have broadband at home. In early 2009, Congress directed the FCC to develop a National Broadband Plan to ensure that every American has ¿access to broadband capability.¿ This plan must also include a strategy for achieving affordability and maximizing use of broadband. The plan presented here ensures that the entire broadband ecosystem ¿ networks, devices, content and applications¿ is healthy. Illus.

Electrochemical Impedance Spectroscopy

John Wiley & Sons Using electrochemical impedance spectroscopy in a broad range of applications This book provides the background and training suitable for application of impedance spectroscopy to varied applications, such as corrosion, biomedical devices, semiconductors and solid-state devices, sensors, batteries, fuel cells, electrochemical capacitors, dielectric measurements, coatings, electrochromic materials, analytical chemistry, and imaging. The emphasis is on generally applicable fundamentals rather than on detailed treatment of applications. With numerous illustrative examples showing how these principles are applied to common impedance problems, Electrochemical Impedance Spectroscopy is ideal either for course study or for independent self-study, covering: Essential background, including complex variables, differential equations, statistics, electrical circuits, electrochemistry, and instrumentation Experimental techniques, including methods used to measure impedance and other transfer functions Process models, demonstrating how deterministic models of impedance response can be developed from physical and kinetic descriptions Interpretation strategies, describing methods of interpretating of impedance data, ranging from graphical methods to complex nonlinear regression Error structure, providing a conceptual understanding of stochastic, bias, and fitting errors in frequency-domain measurements An overview that provides a philosophy for electrochemical impedance spectroscopy that integrates experimental observation, model development, and error analysis This is an excellent textbook for graduate students in electrochemistry, materials science, and chemical engineering. It's also a great self-study guide and reference for scientists and engineers who work with electrochemistry, corrosion, and electrochemical technology, including those in the biomedical field, and for users and vendors of impedance-measuring instrumentation.

Urban Water Reuse Handbook

CRC Press Examining the current literature, research, and relevant case studies, presented by a team of international experts, the Urban Water Reuse Handbook discusses the pros and cons of water reuse and explores new and alternative methods for obtaining a sustainable water supply. The book defines water reuse guidelines, describes the historical and curren

Functional Analysis

John Wiley & Sons Includes sections on the spectral resolution and spectralrepresentation of self adjoint operators, invariant subspaces,strongly continuous one-parameter semigroups, the index ofoperators, the trace formula of Lidskii, the Fredholm determinant,and more. * Assumes prior knowledge of Naive set theory, linear algebra,point set topology, basic complex variable, and realvariables. * Includes an appendix on the Riesz representation theorem.

Fundamentals of Transmission Electron Microscopy

Handbook on Constructing Composite Indicators: Methodology and User Guide

OECD Publishing A guide for constructing and using composite indicators for policy makers, academics, the media and other interested parties. In particular, this handbook is concerned with indicators which compare and rank country performance.

Non-Associative Normed Algebras

Cambridge University Press The first systematic account of the basic theory of normed algebras, without assuming associativity. Sure to become a central resource.

Mathematical Demography

Selected Papers

Springer Science & Business Media Mathematical demography is the centerpiece of quantitative social science. The founding works of this field from Roman times to the late Twentieth Century are collected here, in a new edition of a classic work by David R. Smith and Nathan Keyfitz. Commentaries by Smith and Keyfitz have been brought up to date and extended by Kenneth Wachter and Hervé Le Bras, giving a synoptic picture of the leading achievements in formal population studies. Like the original collection, this new edition constitutes an indispensable source for students and scientists alike, and illustrates the deep roots and continuing vitality of mathematical demography.

Invariant Subspaces of the Shift Operator

American Mathematical Soc. This volume contains the proceedings of the CRM Workshop on Invariant Subspaces of the Shift Operator, held August 26-30, 2013, at the Centre de Recherches Mathématiques, Université de Montréal, Montréal, Quebec, Canada. The main theme of this volume is the invariant subspaces of the shift operator (or its adjoint) on certain function spaces, in particular, the Hardy space, Dirichlet space, and de Branges-Rovnyak spaces. These spaces, and the action of the shift operator on them, have turned out to be a precious tool in various questions in analysis such as function theory (Bieberbach conjecture, rigid functions, Schwarz-Pick inequalities), operator theory (invariant subspace problem, composition operator), and systems and control theory. Of particular interest is the Dirichlet space, which is one of the classical Hilbert spaces of holomorphic functions on the unit disk. From many points of view, the Dirichlet space is an interesting and challenging example of a function space. Though much is known about it, several important open problems remain, most notably the characterization of its zero sets and of its shift-invariant subspaces. This book is co-published with the Centre de Recherches Mathématiques.

GPS Satellite Surveying

John Wiley & Sons Employ the latest satellite positioning tech with this extensiveguide GPS Satellite Surveying is the classic text on thesubject, providing the most comprehensive coverage of globalnavigation satellite systems applications for surveying. Fullyupdated and expanded to reflect the field's latest developments,this new edition contains new information on GNSS antennas, PrecisePoint Positioning, Real-time Relative Positioning, LatticeReduction, and much more. New contributors offer additional insightthat greatly expands the book's reach, providing readers withcomplete, in-depth coverage of geodetic surveying using satellitetechnologies. The newest, most cutting-edge tools, technologies,and applications are explored in-depth to help readers stay up todate on best practices and preferred methods, giving them theunderstanding they need to consistently produce more reliablemeasurement. Global navigation satellite systems have an array of uses inmilitary, civilian, and commercial applications. In surveying, GNSSreceivers are used to position survey markers, buildings, and roadconstruction as accurately as possible with less room for humanerror. GPS Satellite Surveying provides complete guidancetoward the practical aspects of the field, helping readers to: Get up to speed on the latest GPS/GNSS developments Understand how satellite technology is applied tosurveying Examine in-depth information on adjustments and geodesy Learn the fundamentals of positioning, lattice adjustment,antennas, and more The surveying field has seen quite an evolution of technology inthe decade since the last edition's publication. This new editioncovers it all, bringing the reader deep inside the latest tools andtechniques being used on the job. Surveyors, engineers, geologists,and anyone looking to employ satellite positioning will find GPSSatellite Surveying to be of significant assistance.

Vers une écologie industrielle

ECLM La société post-industrielle? Quelle illusion ! Nous vivons en réalité dans un système "hyper-industriel" où les flux de matière et d'énergie continuent à augmenter de plus belle. Les traditionnelles remises en cause du système industriel, dominées par les questions de pollution et d'épuisement des ressources, ne suffisent plus. Une approche nouvelle, plus large, est en train d'émerger depuis quelques années : l'écologie industrielle.Au lieu de voir le système industriel comme séparé de la biosphère, il est possible de le considérer comme un cas particulier d'écosystème. L'écologie industrielle s'intéresse à l'évolution à long terme du système industriel dans son ensemble, et pas seulement aux problèmes d'environnement.

Discriminant Analysis and Statistical Pattern Recognition

John Wiley & Sons The Wiley-Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation. With these new unabridged softcover volumes, Wiley hopes to extend the lives of these works by making them available to future generations of statisticians, mathematicians, and scientists. "For both applied and theoretical statisticians as well as investigators working in the many areas in which relevant use can be made of discriminant techniques, this monograph provides a modern, comprehensive, and systematic account of discriminant analysis, with the focus on the more recent advances in the field." –SciTech Book News ". . . a very useful source of information for any researcher working in discriminant analysis and pattern recognition." –Computational Statistics Discriminant Analysis and Statistical Pattern Recognition provides a systematic account of the subject. While the focus is on practical considerations, both theoretical and practical issues are explored. Among the advances covered are regularized discriminant analysis and bootstrap-based assessment of the performance of a sample-based discriminant rule, and extensions of discriminant analysis motivated by problems in statistical image analysis. The accompanying bibliography contains over 1,200 references.

Environmental Engineering and Sanitation

Wiley-Interscience Emphasis placed on the practical application of sanitary science and engineering theory and priciples of comprehensive environmental control.

Principles of Plasma Discharges and Materials Processing

John Wiley & Sons A Thorough Update of the Industry Classic on Principles of PlasmaProcessing The first edition of Principles of Plasma Discharges and MaterialsProcessing, published over a decade ago, was lauded for itscomplete treatment of both basic plasma physics and industrialplasma processing, quickly becoming the primary reference forstudents and professionals. The Second Edition has been carefully updated and revised toreflect recent developments in the field and to further clarify thepresentation of basic principles. Along with in-depth coverage ofthe fundamentals of plasma physics and chemistry, the authors applybasic theory to plasma discharges, including calculations of plasmaparameters and the scaling of plasma parameters with controlparameters. New and expanded topics include: * Updated cross sections * Diffusion and diffusion solutions * Generalized Bohm criteria * Expanded treatment of dc sheaths * Langmuir probes in time-varying fields * Electronegative discharges *

Pulsed power discharges * Dual frequency discharges * High-density rf sheaths and ion energy distributions * Hysteresis and instabilities * Helicon discharges * Hollow cathode discharges * Ionized physical vapor deposition * Differential substrate charging With new chapters on dusty plasmas and the kinetic theory ofdischarges, graduate students and researchers in the field ofplasma processing should find this new edition more valuable thanever.