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Data-Driven Prediction for Industrial Processes and Their Applications Dec 24 2019 This book presents modeling methods and algorithms for data-driven prediction and forecasting of practical industrial process by employing machine learning and statistics methodologies. Related case studies, especially on energy systems in the steel industry are also addressed and analyzed. The case studies in this volume are entirely rooted in both classical data-driven prediction problems and industrial practice requirements. Detailed figures and tables demonstrate the effectiveness and generalization of the methods addressed, and the classifications of the addressed prediction problems come from practical industrial demands, rather than from academic categories. As such, readers will learn the corresponding approaches for resolving their industrial technical problems. Although the contents of this book and its case studies come from the steel industry, these techniques can be also used for other process industries. This book appeals to

students, researchers, and professionals within the machine learning and data analysis and mining communities.

A note on AntiGeometry and NeutroGeometry and their application to real life Oct 26 2022 Dealing with NeutroGeometry in true, false, and uncertain regions is becoming of great interested for researchers. Not too many studies have been done on this topic, for that reason, aim of this work is to define a new method to deal with NeutroGeometry in true, false, and neutrogeometry (T,C,I,F). Furthermore, some real-life application examples in 3D computer graphics, Astrophysics, nanostructure, neutrolaw, neutrogender, neutrocitation, neutrohealth-food, neutroenvironment and quantum space are presented.

Advances on Tensor Analysis and their Applications Nov 14 2021 This book brings together recent advances in tensor analysis and studies of its invariants such as twistors, spinors, kinematic tensors and others belonging to tensor algebras with extended structures to Lie algebras, Kac-Moody algebras, and enveloping algebras, among others. Chapters cover such topics as classical tensors and bilinear forms, tensors for exploring space–time, tensor applications in geometry and continuum media, and advanced topics in tensor analysis such

as invariant theory, derived categories, hypercohomologies, k-modules, extensions of kinematic tensors, infinite dimensional operators, and more.

Some General Principles of Education and Their Application to Rural Extension Work in the Philippines Oct 14 2021

Monoorgano- and Monosilylcuprate Reagents and Their Application Towards the Total Synthesis of Virginiamycin M?1 May 09 2021

Nanocomposites, Nanostructures, and Their Applications Jan 05 2021 This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine, Europe, and beyond. It features contributions from participants in the 6th International Science and Practice Conference Nanotechnology and Nanomaterials (NANO2018) in Kiev, Ukraine on August 27-30, 2018 organized by the Institute of Physics of the National Academy of Sciences of Ukraine, University of Tartu (Estonia), University of Turin (Italy), and Pierre and Marie Curie University (France). Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key results on material properties, behavior, and synthesis. This book's companion volume also addresses topics such as

nanooptics, energy storage, and biomedical applications.

Biochemistry of Snake Venom Neurotoxins and Their Application to the Study of the Synapse Jun 09 2021

Scattering Methods and their Application in Colloid and Interface Science Mar 31 2023 Scattering Methods and their Application in Colloid and Interface Science offers an overview of small-angle X-ray and neutron scattering techniques (SAXS & SANS), as well as static and dynamic light scattering (SLS & DLS). These scattering techniques are central to the study of soft matter, such as colloidal dispersions and surfactant self-assembly. The theoretical concepts are followed by an overview of instrumentation and a detailed description of the evaluation techniques in the first part of the book. In the second part, several typical application examples are used to show the strength and limitations of these techniques. Features the latest input from the world-leading expert with personal experience in all the fields covered (SAXS, SANS, SLS and DLS) Includes unified notation throughout the book to enhance its readability Provides—in a single source—scattering theory, evaluation of techniques and a variety of applications

Topological Methods, Variational Methods and Their

Applications Dec 04 2020 ICM 2002 Satellite Conference on Nonlinear Analysis was held in the period: August 1418, 2002 at Taiyuan, Shanxi Province, China. This conference was organized by Mathematical School of Peking University, Academy of Mathematics and System Sciences of Chinese Academy of Sciences, Mathematical school of Nankai University, and Department of Mathematics of Shanxi University, and was sponsored by Shanxi Province Education Committee, Tian Yuan Mathematics Foundation, and Shanxi University. 166 mathematicians from 21 countries and areas in the world attended the conference. 53 invited speakers and 30 contributors presented their lectures. This conference aims at an overview of the recent development in nonlinear analysis. It covers the following topics: variational methods, topological methods, fixed point theory, bifurcations, nonlinear spectral theory, nonlinear Schrvdinger equations, semilinear elliptic equations, Hamiltonian systems, central configuration in N-body problems and variational problems arising in geometry and physics.

Biosensors and Their Applications Sep 12 2021 A biosensor is a device in which a bioactive layer lies in direct contact with a transducer whose responses to change in the bioactive layer generate eloctronic

signals for interpretation. The bioactive layer may consist of membrane-bound enzymes, anti-bodies, or receptors. The potential of this blend of electronics and biotechnology includes the direct assay of clinically important substrates (e.g. blood glucose) and of substances too unstable for storage or whose concentrations fluctuate rapidly. Written by the leading researchers in the field, this book reflects the most current developments in successfully constructing a biosensor. Major applications are in the fields of pharmacology, molecular biology, virology and electronics.

Sensors and Their Applications VIII, Proceedings of the eighth conference on Sensors and their Applications, held in Glasgow, UK, 7-10 September 1997 Mar 26 2020 Sensors and Their Applications VIII provides a valuable forum for individuals from all over the world working in all areas of sensors to meet and discuss the developments and applications of transducers and sensor systems. The strength of the sensor community in the UK reinforces the importance of this volume as a valuable reference for all workers in the field.

Tests of Certain Linear Hypotheses and Their Application to Educational Problems in Elementary College Physics Apr 07 2021

Clifford Algebras and their Applications in

Mathematical Physics Jul 11 2021 The plausible relativistic physical variables describing a spinning, charged and massive particle are, besides the charge itself, its Minkowski (four) po sition X, its relativistic linear (four) momentum P and also its so-called Lorentz (four) angular momentum E # 0, the latter forming four trans lation invariant part of its total angular (four) momentum M. Expressing these variables in terms of Poincare covariant real valued functions defined on an extended relativistic phase space [2, 7J means that the mutual Pois son bracket relations among the total angular momentum functions Mab and the linear momentum functions pa have to represent the commutation relations of the Poincare algebra. On any such an extended relativistic phase space, as shown by Zakrzewski [2, 7], the (natural?) Poisson bracket relations (1. 1) imply that for the splitting of the total angular momentum into its orbital and its spin part (1. 2) one necessarily obtains (1. 3) On the other hand it is always possible to shift (translate) the commuting (see (1. 1)) four position xa by a four vector ~Xa (1. 4) so that the total angular four momentum splits instead into a new orbital and a new (Pauli-Lubanski) spin part (1. 5) in such a way that (1. 6) However, as proved by Zakrzewski [2, 7J, the so-defined new shifted four a position functions X must fulfill the

following Poisson bracket relations: (1. Artificial Neural Networks: Formal Models and Their Applications – ICANN 2005 May 21 2022 This volume is the first part of the two-volume proceedings of the International C- ference on Artificial Neural Networks (ICANN 2005), held on September 11–15, 2005 in Warsaw, Poland, with several accompanying workshops held on September 15, 2005 at the Nicolaus Copernicus University, Toru , Poland. The ICANN conference is an annual meeting organized by the European Neural Network Society in cooperation with the International Neural Network Society, the Japanese Neural Network Society, and the IEEE Computational Intelligence Society. It is the premier European event covering all topics concerned with neural networks and related areas. The ICANN series of conferences was initiated in 1991 and soon became the major European gathering for experts in those fields. In 2005 the ICANN conference was organized by the Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland, and the Nicolaus Copernicus Univ- sity, Toru , Poland. From over 600 papers submitted to the regular sessions and some 10 special c- ference sessions, the International Program Committee selected – after a thorough peer-review process – about 270 papers for publication. The

large number of papers accepted is certainly a proof of the vitality and attractiveness of the field of artificial neural networks, but it also shows a strong interest in the ICANN conferences.

Hadamard Matrices and Their Applications Feb 24 2020 In Hadamard Matrices and Their Applications, K. J. Horadam provides the first unified account of cocyclic Hadamard matrices and their applications in signal and data processing. This original work is based on the development of an algebraic link between Hadamard matrices and the cohomology of finite groups that was discovered fifteen years ago. The book translates physical applications into terms a pure mathematician will appreciate, and theoretical structures into ones an applied mathematician, computer scientist, or communications engineer can adapt and use. The first half of the book explains the state of our knowledge of Hadamard matrices and two important generalizations: matrices with group entries and multidimensional Hadamard arrays. It focuses on their applications in engineering and computer science, as signal transforms, spreading sequences, error-correcting codes, and cryptographic primitives. The book's second half presents the new results in cocyclic Hadamard matrices and their applications. Full expression of this theory has been realized only recently, in the

Five-fold Constellation. This identifies cocyclic generalized Hadamard matrices with particular "stars" in four other areas of mathematics and engineering: group cohomology, incidence structures, combinatorics, and signal correlation. Pointing the way to possible new developments in a field ripe for further research, this book formulates and discusses ninety open questions.

Considerations in the Muscle Function and Their Application to Disability Evaluation and Treatment Dec 16 2021

Plants and Their Application to Ornament May 01 2023 Elegant botanical illustrations from the classic 1897 design book Plants and Their Application to Ornament arereproduced in this lavish collection. Sure to delight artists, designers, and fans of the Arts and Crafts and Art Nouveau styles, this gorgeous volume features flowering plants depicted as realistic natural history-style illustrations and stylized images demonstrating plant-based design motifs used on textiles, wallpapers, and more. Published in association with the Museum of Fine Arts, Boston, this deluxe edition presents an important art history artifact, a useful design reference, and a lovely and ornamental objet d'art.

Convex Sets and Their Applications Jan 23 2020 Suitable for advanced undergraduates and graduate

students, this text introduces the broad scope of convexity. It leads students to open questions and unsolved problems, and it highlights diverse applications. Author Steven R. Lay, Professor of Mathematics at Lee University in Tennessee, reinforces his teachings with numerous examples, plus exercises with hints and answers. The first three chapters form the foundation for all that follows, starting with a review of the fundamentals of linear algebra and topology. They also survey the development and applications of relationships between hyperplanes and convex sets. Subsequent chapters are relatively self-contained, each focusing on a particular aspect or application of convex sets. Topics include characterizations of convex sets, polytopes, duality, optimization, and convex functions. Hints, solutions, and references for the exercises appear at the back of the book.

Power Cables and Their Application, Power Cables and Their Applications Jul 23 2022 Lothar Heinhold, Editor Power Cables and their Application This book provides a comprehensive summary of the cables and insulated wires in use today. Apart from detailed descriptions of constructional elements and their materials, as well as accessories, guidance is included for laying, installation and testing. All calculation methods necessary for the planning of

cable installations are discussed and explained by the use of practical examples. Detailed construction data and technical values for project planning for the engineer and the installer may be found in Part 2. Overview of Contents Constructional Elements Conductors Insulation Protective Sheaths Protection against Corrosion Insulated Wires and Flexible Cables Types of Wires and Cables Core Identification of Cables Application and Installation of Cables Power Cables National and International Standards Types of Construction of Low- and High-Voltage Cables Power Cables for Special Applications High-and Extra-High-Voltage Cables Planning of Cable Installations Guide for Planning of Cable Installations Cable Rated Voltages Current-Carrying Capacity Short-Circuit Conditions Resistance Capacitance Inductance Insulation Resistance Economic Optimization of Cable Size Interference of Power Cables with Control and Telecommunication Cables Design and Calculation of Distribution Systems Laying and Installation Cable Identification Marking Laying the Cable Installation Guide Cable Accessories Cable Plan Measuring and Testing of Power Installations Electrical Measurements in the Cable Installation, as Installed Locating Faults

Orthopaedics; Principles and Their Application Aug

24 2022

Bootstrap Methods and Their Application Feb 27 2023 Disk contains the library functions and documentation for use with Splus for Windows.

Visual Display Units and Their Application Apr 19 2022

Classification and Examples of Differential Equations and Their Applications Sep 24 2022 Classification and Examples of Differential Equations and their Applications is the sixth book within Ordinary Differential Equations with Applications to Trajectories and Vibrations, Six-volume Set. As a set, they are the fourth volume in the series Mathematics and Physics Applied to Science and Technology. This sixth book consists of one chapter (chapter 10 of the set). It contains 20 examples related to the preceding five books and chapters 1 to 9 of the set. It includes two recollections: the first with a classification of differential equations into 500 standards and the second with a list of 500 applications. The ordinary differential equations are classified in 500 standards concerning methods of solution and related properties, including: (i) linear differential equations with constant or homogeneous coefficients and finite difference equations; (ii) linear and non-linear single differential equations and simultaneous

systems; (iii) existence, unicity and other properties; (iv) derivation of general, particular, special, analytic, regular, irregular, and normal integrals; (v) linear differential equations with variable coefficients including known and new special functions. The theory of differential equations is applied to the detailed solution of 500 physical and engineering problems including: (i) one- and multidimensional oscillators, with damping or amplification, with non-resonant or resonant forcing; (ii) single, non-linear, and parametric resonance; (iii) bifurcations and chaotic dynamical systems; (iv) longitudinal and transversal deformations and buckling of bars, beams, and plates; (v) trajectories of particles; (vi) oscillations and waves in non-uniform media, ducts, and wave guides. Provides detailed solution of examples of differential equations of the types covered in tomes l-5 of the set (Ordinary Differential Equations with Applications to Trajectories and Vibrations, Six -volume Set) Includes physical and engineering problems that extend those presented in the tomes 1-6 (Ordinary Differential Equations with Applications to Trajectories and Vibrations, Six-volume Set) Includes a classification of ordinary differential equations and their properties into 500 standards that can serve as a look-up table of

methods of solution Covers a recollection of 500 physical and engineering problems and sub-cases that involve the solution of differential equations Presents the problems used as examples including formulation, solution, and interpretation of results

Magnetic Skyrmions and Their Applications Nov 02 2020 Magnetic skyrmions are particle-like objects described by localized solutions of non-linear partial differential equations. Up until a few decades ago, it was believed that magnetic skyrmions only existed in condensed matter as short-term excitations that would quickly collapse into linear singularities. The contrary was proven theoretically in 1989 and evidentially in 2009. It is now known that skyrmions can exist as long-living metastable configurations in low-symmetry condensed matter systems with broken mirror symmetry, increasing the potential applications possible. Magnetic Skyrmions and their Applications delves into the fundamental principles and most recent research and developments surrounding these unique magnetic particles. Despite achievements in the synthesis of systems stabilizing chiral magnetic skyrmions and the variety of experimental investigations and numerical calculations, there have not been many summaries of the fundamental physical principles governing magnetic skyrmions or integrating those concepts

with methods of detection, characterization and potential applications. Magnetic Skyrmions and their Applications delivers a coherent, state-of-the-art discussion on the current knowledge and potential applications of magnetic skyrmions in magnetic materials and device applications. First the book reviews key concepts such as topology, magnetism and materials for magnetic skyrmions. Then, charactization methods, physical mechanisms, and emerging applications are discussed. Covers background knowledge and details the basic principles of magnetic skyrmions, including materials, characterization, statics and dynamics Reviews materials for skyrmion stabilization including bulk materials and interface-dominated multilayer materials Describes both well-known and unconventional applications of magnetic skyrmions, such as memristors and reservoir computing

Low-order Classical Runge-Kutta Formulas with Stepsize Control and Their Application to Some Heat Transfer Problems Mar 07 2021

Multiple Imputation and its Application Jul 31 2020 A practical guide to analysing partially observeddata. Collecting, analysing and drawing inferences from data iscentral to research in the medical and social sciences.Unfortunately, it is rarely possible to collect all the intendeddata. The

literature on inference from the resultingincomplete data is now huge, and continues to grow both asmethods are developed for large and complex data structures, and asincreasing computer power and suitable software enable researchersto apply these methods. This book focuses on a particular statistical method foranalysing and drawing inferences from incomplete data, calledMultiple Imputation (MI). MI is attractive because it is bothpractical and widely applicable. The authors aim is to clarify theissues raised by missing data, describing the rationale for MI, therelationship between the various imputation models and associatedalgorithms and its application to increasingly complex datastructures. Multiple Imputation and its Application: Discusses the issues raised by the analysis of partiallyobserved data, and the assumptions on which analyses rest. Presents a practical guide to the issues to consider whenanalysing incomplete data from both observational studies andrandomized trials. Provides a detailed discussion of the practical use of MI withreal-world examples drawn from medical and social statistics. Explores handling non-linear relationships and interactionswith multiple imputation, survival analysis, multilevel multipleimputation, sensitivity analysis via multiple

imputation, usingnon-response weights with multiple imputation and doubly robustmultiple imputation. Multiple Imputation and its Application is aimed atquantitative researchers and students in the medical and socialsciences with the aim of clarifying the issues raised by theanalysis of incomplete data data, outlining the rationale for MIand describing how to consider and address the issues that arise inits application.

Topological Methods, Variational Methods and Their Applications May 28 2020 ICM 2002 Satellite Conference on Nonlinear Analysis was held in the period: August 14–18, 2002 at Taiyuan, Shanxi Province, China. This conference was organized by Mathematical School of Peking University, Academy of Mathematics and System Sciences of Chinese Academy of Sciences, Mathematical school of Nankai University, and Department of Mathematics of Shanxi University, and was sponsored by Shanxi Province Education Committee, Tian Yuan Mathematics Foundation, and Shanxi University. 166 mathematicians from 21 countries and areas in the world attended the conference. 53 invited speakers and 30 contributors presented their lectures. This conference aims at an overview of the recent development in nonlinear analysis. It covers the following topics: variational methods, topological

methods, fixed point theory, bifurcations, nonlinear spectral theory, nonlinear Schrödinger equations, semilinear elliptic equations, Hamiltonian systems, central configuration in N-body problems and variational problems arising in geometry and physics. Contents:The Underlying Geometry of the Fixed Centers Problems (A Albouy)Critical Equations for the Polyharmonic Operator (T Bartsch)Heat Method in Nonlinear Elliptic Equations (K-C Chang)Boundary Blow-Up Solutions and Their Applications (Y H Du)Fixed Points of Increasing Operator (F Y Li)Collinear Central Configurations in Celestial Mechanics (Y M Long & S Z Sun)Remarks on a Priori Estimates for Superlinear Elliptic Problems (M Ramos)A Semilinear Schrödinger Equation with Magnetic Field (A Szulkin)Sign Changing Solutions of Superlinear Schrödinger Equations (T Weth)Computational Theory and Methods for Finding Multiple Critical Points (J X Zhou)and other papers Readership: Researchers and graduate students in nonlinear differential equations, nonlinear functional analysis, dynamical systems, mathematical physics etc. Keywords:Variational Mthods;Topological Methods;Hamiltonian Systems;Nonlinear SchrÃ¶dinger Equation;Dynamic System

Trucks and Trailers and Their Application to

Logging Operations Feb 15 2022

The Principles of Harmony and Contrast of Colours, and their applications to the arts ... Translated from the French by C. Martel Aug 31 2020

Singular Integral Equations Jan 29 2023 In preparing this translation for publication certain minor modifications and additions have been introduced into the original Russian text, in order to increase its readibility and usefulness. Thus, instead of the first person, the third person has been used throughout; wherever possible footnotes have been included with the main text. The chapters and their subsections of the Russian edition have been renamed parts and chapters respectively and the last have been numbered consecutively. An authors and subject index has been added. In particular, the former has been combined with the list of references of the original text, in order to enable the reader to find quickly all information on anyone reference in which he may be especially interested. This has been considered most important with a view to the difficulties experienced outside Russia in obtaining references, published in that country. Russian names have been printed in Russian letters in the authors index, in order to overcome any possible confusion arising from transliteration.

Water-soluble Coatings and Their Application by

Electro-deposition, 1960-1965 Jan 17 2022

High Speed, High Power GaInP/GaAs HBTs and Their Application to Microwave Monolithic Integrated Circuits (MMICS). Aug 12 2021

Food Proteins and Their Applications Oct 02 2020 Reviews the physiochemical properties of the main food proteins and explores the interdependency between the structure-function relationship of specific protein classes and the processing technologies applied to given foods. The book offers solutions to current problems related to the complexity of food composition, preparation and storage, and includes such topics as foams, emulsions, gelation by macromolecules, hydrolysis, microparticles/fat replacers, protein-based edible films, and extraction procedures.

Systems Approaches and Their Application Apr 27 2020 This book describes the application of systems thinking across a broad field of cases representing research, teaching, decision support and construction. All cases are presented by experts who have actually been involved in the activities they describe. The broad selection of cases captures the great variation of systems thinking, and how it is integrated into models and theories and solid knowledge pertaining to different substantive areas.

Sociative Logics and Their Applications: Essays by

the Late Richard Sylvan Jun 29 2020 This title was first published in 2003. Richard Sylvan died in 1996, he had made contributions to many areas of philosophy, such as, relevant and paraconsistent logic, Meinongianism and metaphysics and environmental ethics. One of his "trademarks" was the taking up of unpopular views and defending them. To Richard Sylvan ideas were important, wether they were his or not. This is a book of ideas, based on a collection of work found after his death, a chance for readers to see his vision of his projects. This collected works represents material drafted between 1982 and 1996, and the theme is that a small band of logics, namely pararelevant logics, offer solutions to many problems, puzzles and paradoxes in the philosophy of science.
Advanced Nanomaterials and Their Applications in Renewable Energy Dec 28 2022 Advanced Nanomaterials and Their Applications in Renewable Energy presents timely topics related to nanomaterials' feasible synthesis and characterization, and their application in the energy fields. In addition, the book provides insights and scientific discoveries in toxicity study, with information that is easily understood by a wide audience. Advanced energy materials are important in designing materials that have greater physical,

electronic, and optical properties. This book emphasizes the fundamental physics and chemistry underlying the techniques used to develop solar and fuel cells with high charge densities and energy conversion efficiencies. New analytical techniques (synchronous X-ray) which probe the interactions of particles and radiation with matter are also explored, making this book an invaluable reference for practitioners and those interested in the science. Provides a comprehensive review of solar energy, fuel cells, and gas storage from 2010 to the present Reviews feasible synthesis and modern analytical techniques used in alternative energy Explores examples of research in alternative energy, including current assessments of nanomaterials and safety Contains a glossary of terms, units, and historical benchmarks Presents a useful guide that will bring readers up to speed on historical developments in alternative fuel cells

Graph Grammars and Their Application to Computer Science Nov 26 2022 This book describes the functional properties and the structural organization of the members of the thrombospondin gene family. These proteins comprise a family of extracellular calcium binding proteins that modulate cellular adhesion, migration and proliferation. Thrombospondin-1 has been shown to function

during angiogenesis, wound healing and tumor cell metastasis.

Connected Sequences of Stable Derived Functions and Their Application Mar 19 2022

Graph-grammars and Their Application to Computer Science Jun 21 2022

Metal Oxide-Based Nanofibers and Their Applications Feb 03 2021 Metal Oxide-based Nanofibers and their Applications provides an in-depth overview on developments surrounding the synthesis, characterization properties, and applications achieved by scientific leaders in the area. Sections deal with the theoretical and experimental aspects of the synthesis and methodologies to control microstructure, composition and shape of the nanofibrous metal oxides, review the applications of metal oxide nanofibers in diverse technologies, with special focus on the relation between the structural, morphological and compositional features of the nanofibers, cover applications of metal oxide nanofibers in the fields of sensing (biosensing, gas sensing), and consider biomedical and cleaning technologies. Lastly, a final section covers their application in energy generation and storage technologies (e. g. piezoelectric, solar cells, solid oxide fuel cells, lithium-ion batteries,

supercapacitors, and hydrogen storage are reviewed. Reviews electrospinning methods for the synthesis and design of nanocomposites and hybrid metal oxide nanofibers Discusses applications of metal oxide nanofibers in sensing, biomedical fields, cleaning technologies, and energy Emphasizes the structural, morphological and compositional properties of nanofibers and their effect on device performance

Real Life

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