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Environmental Process Analysis Soil Analysis Geophysical Signal Analysis Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision Geospatial Analysis Applied to Mineral Exploration Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis Exploring Human Behavior Through Isotope Analysis Exploring Yellowstone National Park Through Statistical Analysis Formal Concept Analysis Statistics and Data Analysis in Geochemical Prospecting Statistical Applications in the Earth Sciences Data Analysis in Medicine and Health using R Economic Analysis of Information and Contracts American Doctoral Dissertations Fundamentals and Applications of Multiway Data Analysis Energy Abstracts for Policy Analysis In Situ Analysis of Cellular Functional Molecules Global Model for Sound Absorption in Sea Water Time-series Computations in Fortran and FAP.: A program library Safety, Reliability and Risk Analysis Seismic Data Analysis Data Handling and Analysis Formal Concept Analysis Building Performance Analysis Handbook of Forensic Drug Analysis Uncertainty and Sensitivity Analysis in Archaeological Computational Modeling Mineral Resources of Northern Alaska Quantitative Analysis of Mineral and Energy Resources Applied Multiple Regression/Correlation Analysis for the Behavioral Sciences Spatial Data Analysis in Ecology and Agriculture Using R Geochemical Anomaly and Mineral Prospectivity Mapping in GIS Reinforcement Learning Algorithms: Analysis and Applications Transactions Integrating Landscape Approaches and Multi-Resource Analysis into Natural Resource Management Remote Compositional Analysis Basic Theory in Reflection Seismology Mathematical Analysis of Machine Learning Algorithms Topics in Functional Analysis and Algebra Principles of Sedimentary Basin Analysis Multi-component VSP Analysis for Applied Seismic Anisotropy

Environmental Process Analysis

2013-11-25

enables readers to apply core principles of environmental engineering to analyze environmental systems environmental process analysis takes a unique approach applying mathematical and numerical process modeling within the context of both natural and engineered environmental systems readers master core principles of natural and engineering science such as chemical equilibria reaction kinetics ideal and non ideal reactor theory and mass accounting by performing practical real world analyses as they progress through the text readers will have the opportunity to analyze a broad range of environmental processes and systems including water and wastewater treatment surface mining agriculture landfills subsurface saturated and unsaturated porous media aqueous and marine sediments surface waters and atmospheric moisture the text begins with an examination of water core definitions and a review of important chemical principles it then progressively builds upon this base with applications of henry s law acid base equilibria and reactions in ideal reactors finally the text addresses reactions in non ideal reactors and advanced applications of acid base equilibria complexation and solubility dissolution equilibria and oxidation reduction equilibria several tools are provided to fully engage readers in mastering new concepts and then applying them in practice including detailed examples that demonstrate the application of concepts and principles problems at the end of each chapter challenging readers to apply their newfound knowledge to analyze environmental processes and systems mathcad worksheets that provide a powerful platform for constructing process models environmental process analysis serves as a bridge between introductory environmental engineering textbooks and hands on environmental engineering practice by learning how to mathematically and numerically model environmental processes and systems readers will also come to better understand the underlying connections among the various models concepts and systems

Soil Analysis

1999

a practical guide to soil tests for australian soils and conditions

Geophysical Signal Analysis

2000

addresses the construction analysis and interpretation of mathematical and statistical models the practical use of the concepts and techniques developed is illustrated by numerous applications the chosen examples will interest many readers including those engaged in digital signal analysis in disciplines other than geophysics

Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision

2018-10-31

this volume contains the papers presented at ialcce2018 the sixth international symposium on life cycle civil engineering ialcce2018 held in ghent belgium october 28 31 2018 it consists of a book of extended abstracts and a usb device with full papers including the fazlur r khan lecture 8 keynote lectures and 390 technical papers from all over the world contributions relate to design inspection assessment maintenance or optimization in the framework of life cycle analysis of civil engineering structures and infrastructure systems life cycle aspects that are developed and discussed range from structural safety and durability to sustainability serviceability robustness and resilience applications relate to buildings bridges and viaducts highways and runways tunnels and underground structures off shore and marine structures dams and hydraulic structures prefabricated design infrastructure systems etc during the ialcce2018 conference a particular focus is put on the cross fertilization between different sub areas of expertise and the development of an overall vision for life cycle analysis in civil engineering the aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life cycle analysis and assessment in civil engineering including researchers practising engineers consultants contractors decision makers and representatives from local authorities

Geospatial Analysis Applied to Mineral Exploration

2023-08-10

geospatial analysis applied to mineral exploration remote sensing gis geochemical and geophysical applications to mineral resources presents state of the art approaches on recent remote sensing and gis based mineral prospectivity modeling for earth scientists researchers mineral exploration communities and mining companies this book will help readers solve high complexity issues in remote sensing data processing geochemical data analysis geophysical data analysis and appropriate applications of gis techniques for data fusion designed for mineral exploration purposes it contains updated knowledge of remote sensing imagery geochemistry geophysics and geospatial techniques that can assist in delineating the signatures and patterns linked to deep seated covered blind or buried mineral deposits covers advances in remote sensing data processing algorithms and geochemical data analysis includes sections on geophysical data analysis and machine learning algorithms for mineral exploration introduces the suite of geo spatial tools currently available for mineral exploration presents case studies to provide real world examples of the theories covered

Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis

2019-04-29

the united states possesses a treasure trove of extraterrestrial samples that were returned to earth via space missions over the past four decades analyses of these previously returned samples have led to major breakthroughs in the understanding of the age composition and origin of the solar system having the instrumentation facilities and qualified personnel to undertake analyses of returned samples especially from missions that take up to a decade or longer from launch to return is thus of paramount importance if the national aeronautics and space administration nasa is to capitalize fully on the investment made in these missions and to achieve the full scientific impact afforded by these extraordinary samples planetary science may be entering a new golden era of extraterrestrial sample return now is the time to assess how prepared the scientific community is to take advantage of these opportunities strategic investments in instrumentation and facilities for extraterrestrial sample curation and analysis assesses the current capabilities within the planetary science community for sample return analyses and curation and what capabilities are currently missing that will be needed for future sample return missions this report evaluates whether current laboratory support infrastructure and nasa s investment strategy is adequate to meet these analytical challenges and advises how the community can keep abreast of evolving and new techniques in order to stay at the forefront of extraterrestrial sample analysis

Exploring Human Behavior Through Isotope Analysis

2023-06-23

this edited volume compiles a series of chapters written by experts of isotopic analysis in order to highlight the utility of various isotope systems in the reconstruction of past human behaviors rather than grouping contributions by specific isotopes or analytical techniques as many isotope review articles are arranged the volume organizes chapters by broadly defined themes of archaeological research these include paleodiet and life histories human animal interactions and migration and mobility in this sense the book is arranged with the intent of being as much question based as method based chapters under these themes provide background information on the principles of the techniques and on the theoretical underpinnings of the research yet they are written with the non specialist in mind and attempt to convey these ideas clearly and succinctly in addition to the case studies and reviews three chapters provide greater context to the field of isotopic archaeology discussing its history basic principles and future potential the volume aims to serve as a reference source for students and practicing archaeologists seeking to apply isotopic studies to their own research projects or to act as a reader for courses in archaeological science chapter 6 is available open access under a creative commons attribution 4 0 international license via link springer com

Exploring Yellowstone National Park Through Statistical Analysis

2016-03-02

bring the wonder and excitement of yellowstone national park to your statistics classroom with exploring yellowstone national park through statistical analysis this set of eight activities takes students beyond the mean median and mode to predict wildlife populations classify thermal features and determine predictability of yellowstone s geysers statistical analysis techniques include regression hypothesis testing percentages displays of data data collection and more

Formal Concept Analysis

2015-05-26

this book constitutes the refereed proceedings of the 13th international conference on formal concept analysis icfca 2015 held in neja spain in june 2015 the 16 revised full papers presented were carefully reviewed and selected from 38 submissions the topics in this volume cover theoretical aspects of fca methods and applications of fca to different fields and enhanced fca that show new trends in fca for instance pattern structures of fuzzy fca

Statistics and Data Analysis in Geochemical Prospecting

2013-10-22

handbook of exploration geochemistry volume 2 statistics and data analysis in geochemical prospecting aims to survey the techniques available for the quality control of laboratory data storage and retrieval of field and laboratory information statistical analysis of single and multi element data and presentation of geochemical data as maps the selection first elaborates on data storage and retrieval control procedures in geochemical analysis and univariate analysis discussions focus on analysis of variance density distribution probability graphs statistical basis of analytical quality control laboratory control procedures data storage media data organization programming considerations and generalized data systems the book then takes a look at sampling methodology mapping and multivariate analysis concerns cover correlation cluster analysis regression partial correlation class selection techniques map filtering techniques cross correlation maps strategies for optimum sampling design and search techniques the manuscript elaborates on examples of geochemical data processing in africa mathematical and statistical activity in north america statistical models for geochemical anomalies geochemical characterization of tin granites in northern thailand and use of pattern classification methods in till geochemistry the selection is highly recommended for researchers interested in statistics and data analysis in geochemical prospecting

Statistical Applications in the Earth Sciences

1990

collection of papers presented at the colloquium covering the broad subject areas of spatial data integration statistical analysis of geoscience data and quantitative stratigraphy working group reports are included as well

Data Analysis in Medicine and Health using R

2023-09-12

data analysis plays a vital role in guiding medical treatment plans patient care and the formulation of control and prevention policies in the field of healthcare in today s era researchers in these domains require a firm grasp of data statistical concepts and programming skills due to the increasing complexity of data reproducible analyses and cutting edge statistical methods are becoming increasingly necessary this book which is both comprehensive and highly practical addresses these challenges by laying a solid foundation of data and statistical theory for readers subsequently it equips them with practical skills to conduct analyses using the powerful r programming language widely used by statisticians the book takes a gentle approach to help readers navigate data and statistical analysis using r minimizing the learning curve rstudio is used as the integrated development environment ide for enhanced productivity for readers to run their r codes following a logical sequence commonly applied in medical and health research the book covers fundamental concepts of data analysis and statistical modeling techniques it provides readers including those with limited statistical knowledge and programming skills with hands on experience through r programming the online version of this book is available on bookdown org a publishing platform provided by rstudio pbc specifically designed to host books written using the bookdown package in r additionally all r codes and datasets in this book can be found on the author s github repository

Economic Analysis of Information and Contracts

1988-06-30

the three coeditors knew john butterworth for many years and had worked closely with him on a number of research projects we respected him as a valuable colleague and friend we were greatly saddened by his untimely death this book is an attempt to remember him we dedicate the volume to john with thanks for the contributions he made to our research to the faculty of commerce and business administration at the university of british columbia and to the accounting profession this volume contains twelve invited papers on the general topic of the economic theory of information and contracts we asked leading scholars who had known john to contribute papers the response was very gratifying the authors provided us with new strong research papers that should make a lasting contribution to the accounting and information economics research literature and make us all proud to have put this volume together the research papers in the volume are in three sections information evaluation in multi person contexts contracting in agencies under moral hazard and contracting in agencies with private information we begin part i with jerry feltham's review of john butterworth's pioneering contributions to the accounting and information economics literature this is followed by an introduction to the papers in the volume and the papers themselves

American Doctoral Dissertations

1995

fundamentals and applications of multiway data analysis provides comprehensive coverage of the main aspects of multiway analysis including selected applications that can resolve complex analytical chemistry problems this book follows on from fundamentals and analytical applications of multiway calibration 2015 by addressing new theoretical analysis and applications on subjects beyond multiway calibration and devoted to the analysis of multiway data for other purposes specifically this new volume presents researchers a set of effective tools they can use to obtain the maximum information from instrumental data this book includes the most advanced techniques methods and algorithms related to multiway modelling for solving calibration and classification tasks and the way they can be applied this book collects contributions from a selected number of well known and active chemometric research groups across the world each covering one or more subjects where their expertise is recognized and appreciated includes chapters written by renowned international authors all currently

active in the subject field presents coverage of all the main aspects of multi way analytical data analysis concerning the two main areas of interest data generation and algorithmic models for data processing provides up to date material with reference to current literature on the subject

Fundamentals and Applications of Multiway Data Analysis

2024-01-19

this book introduces the tailor made design of detection probes as well as schemes from a top down perspective according to the unique characteristics of cellular functional molecules

Energy Abstracts for Policy Analysis

1989

methods of risk and reliability analysis are becoming increasingly important as decision support tools in various fields of engineering safety reliability and risk analysis beyond the horizon covers a wide range of topics for which risk analysis forms an indispensable field of knowledge to ensure sufficient safety

In Situ Analysis of Cellular Functional Molecules

2020-01-15

expanding the author s original work on processing to include inversion and interpretation and including developments in all aspects of conventional processing this two volume set is a comprehensive and complete coverage of the modern trends in the seismic industry from time to depth from 3d to 4d from 4d to 4c and from isotropy to anisotropy

Global Model for Sound Absorption in Sea Water

1987

biomedical scientists are the foundation of modern healthcare from cancer screening to diagnosing hiv from blood transfusion for surgery to food poisoning and infection control without biomedical scientists the diagnosis of disease the evaluation of the effectiveness of treatment and research into the causes and cures of disease would not be possible the fundamentals of biomedical science series has been written to reflect the challenges of practicing biomedical science today it draws together essential basic science with insights into laboratory practice to show how an understanding of the biology of disease is coupled to the analytical approaches that lead to diagnosis assuming only a minimum of prior knowledge the series reviews the full range of disciplines to which a biomedical scientist may be exposed from microbiology to cytopathology to transfusion science data handling and analysis is the most relevant and useful statistics and data analysis text for biomedical science students providing a broad review of the quantitative skills needed to be an effective biomedical scientist the text spans the collection presentation and analysis of data it draws on relevant examples throughout creating an ideal introduction to the subject for any student of biomedical science

Time-series Computations in Fortran and FAP.: A program library

1966

this book constitutes the proceedings of the 14th international conference on formal concept analysis icfca 2017 held in rennes france in june 2017 the 13 full papers presented in this volume were carefully reviewed and selected from 37 submissions the book also contains an invited contribution and a historical paper translated from german and originally published in die klassifikation und ihr umfeld edited by p o degen h j hermes and o opitz indeks verlag frankfurt 1986 the field of formal concept analysis fca originated in the 1980s in darmstadt as a subfield of mathematical order theory with prior developments in other research groups its original motivation was to consider complete lattices as lattices of concepts drawing motivation from philosophy and mathematics alike fca has since then developed into a wide research area with applications much beyond its original motivation for example in logic data mining learning and psychology

Safety, Reliability and Risk Analysis

2013-09-18

explores and brings together the existent body of knowledge on building performance analysis building performance is an important yet surprisingly complex concept this book presents a comprehensive and systematic overview of the subject it provides a working definition of building performance and an in depth discussion of the role building performance plays throughout the building life cycle the book also explores the perspectives of various stakeholders the functions of buildings performance requirements performance quantification both predicted and measured criteria for success and the challenges of using performance analysis in practice building performance analysis starts by introducing the subject of building performance its key terms definitions history and challenges it then develops a theoretical foundation for the subject explores the complexity of performance assessment and the way that performance analysis impacts on actual buildings in doing so it attempts to answer the following questions what is building performance how can building performance be measured and analyzed how does the analysis of building performance guide the improvement of buildings and what can the building domain learn from the way performance is handled in other disciplines assembles the current body of knowledge on building performance analysis in one unique resource offers deep insights into the complexity of using building performance analysis throughout the entire building life cycle including design operation and management contributes an emergent theory of building performance and its analysis building performance analysis will appeal to the building science community both from industry and academia it specifically targets advanced students in architectural engineering building services design building performance simulation and similar fields who hold an interest in ensuring that buildings meet the needs of their stakeholders

Seismic Data Analysis

2001

the handbook of forensic drug analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs with chapters written by leading researchers in the field the book provides in depth up to date methods and results of forensic drug analyses this handbook discusses various forms of the drug as well as the origin and nature of samples it explains how to perform various tests the use of best practices and the analysis of results numerous forensic and chemical analytic techniques are covered including immunoassay gas

chromatography and mass spectrometry topics range from the use of immunoassay technologies for drugs of abuse testing to methods of forensic analysis for cannabis hallucinogens cocaine opioids and amphetamine the book also looks at synthetic methods and law enforcement concerns regarding the manufacture of illicit drugs with an emphasis on clandestine methamphetamine production this handbook should serve as a widely used reference for forensic scientists toxicologists pharmacologists drug companies and professionals working in toxicology testing labs libraries and poison control centers it may also be used by chemists physicians and those in legal and regulatory professions and students of graduate courses in forensic science contributed to by leading scientists from around the world the only analysis book dedicated to illicit drugs of abuse comprehensive coverage of sampling methods and various forms of analysis

Data Handling and Analysis

2018-10-25

this volume deals with the pressing issue of uncertainty in archaeological modeling detecting where and when uncertainty is introduced to the modeling process is critical as are strategies for minimizing reconciling or accommodating such uncertainty included chapters provide unique perspectives on uncertainty in archaeological modeling ranging in both theoretical and methodological orientation the strengths and weaknesses of various identification and mitigation techniques are discussed in particular sensitivity analysis the chapters demonstrate that for archaeological modeling purposes there is no quick fix for uncertainty indeed each archaeological model requires intensive consideration of uncertainty and specific applications for calibration and validation as very few such techniques have been problematized in a systematic manner or published in the archaeological literature this volume aims to provide guidance and direction to other modelers in the field by distilling some basic principles for model testing derived from insight gathered in the case studies presented additionally model applications and their attendant uncertainties are presented from distinct spatio temporal contexts and will appeal to a broad range of archaeological modelers this volume will also be of interest to non modeling archaeologists as consideration of uncertainty when interpreting the archaeological record is also a vital concern for the development of non formal or implicit models of human behavior in the past

Formal Concept Analysis

2017-06-02

this volume contains the edited papers prepared by lecturers and participants of the nato advanced study institute on statistical treatments for estimation of mineral and energy resources held at ii ciocco lucca italy june 22 july 4 1986 during the past twenty years tremendous efforts have been made to acquire quantitative geoscience information from ore deposits geochemical geophysical and remotely sensed measurements in october 1981 a two day symposium on quantitative resource evaluation and a three day workshop on interactive systems for multivariate analysis and image processing for resource evaluation were held in ottawa jointly sponsored by the geological survey of canada the international association for mathematical geology and the international geological correlation programme thirty scientists from different countries in europe and north america were invited to form a forum for the discussion of quantitative methods for mineral and energy resource assessment since then not only a multitude of research projects directed toward quantitative analysis in the earth sciences but also recent advances in hardware and software technology such as high resolution graphics data base management systems and statistical packages on mini and micro computers made it possible to study large geoscience data sets in addition methods of image analysis have been utilized to capture data in digital form and to supply a variety of tools for characterizing natural phenomena

Building Performance Analysis

2018-05-31

this classic text on multiple regression is noted for its nonmathematical applied and data analytic approach readers profit from its verbal conceptual exposition and frequent use of examples the applied emphasis provides clear illustrations of the principles and provides worked examples of the types of applications that are possible researchers learn how to specify regression models that directly address their research questions an overview of the fundamental ideas of multiple regression and a review of bivariate correlation and regression and other elementary statistical concepts provide a strong foundation for understanding the rest of the text the third edition features an increased emphasis on graphics and the use of confidence intervals and effect size measures and an accompanying website with data for most of the numerical examples along with the computer code for spss sas and systat at

psypress com 9780805822236 applied multiple regression serves as both a textbook for graduate students and as a reference tool for researchers in psychology education health sciences communications business sociology political science anthropology and economics an introductory knowledge of statistics is required self standing chapters minimize the need for researchers to refer to previous chapters

Handbook of Forensic Drug Analysis

2004-12-31

assuming no prior knowledge of r spatial data analysis in ecology and agriculture using r provides practical instruction on the use of the r programming language to analyze spatial data arising from research in ecology and agriculture written in terms of four data sets easily accessible online this book guides the reader through the analysis of each data set including setting research objectives designing the sampling plan data quality control exploratory and confirmatory data analysis and drawing scientific conclusions based on the author s spatial data analysis course at the university of california davis the book is intended for classroom use or self study by graduate students and researchers in ecology geography and agricultural science with an interest in the analysis of spatial data

Uncertainty and Sensitivity Analysis in Archaeological Computational Modeling

2016-05-18

geochemical anomaly and mineral prospectivity mapping in gis documents and explains in three parts geochemical anomaly and mineral prospectivity mapping by using a geographic information system gis part i reviews and couples the concepts of a mapping geochemical anomalies and mineral prospectivity and b spatial data models management and operations in a gis part ii demonstrates gis aided and gis based techniques for analysis of robust thresholds in mapping of geochemical anomalies part iii explains gis aided and gis based techniques for spatial data analysis and geo information sybthesis for conceptual and predictive modeling of mineral prospectivity because methods of geochemical anomaly mapping and mineral potential mapping are highly specialized yet diverse the book explains only methods in which gis plays an important role the book avoids using language and functional organization of particular commercial gis software but explains where necessary gis functionality and spatial data structures appropriate to problems in geochemical anomaly mapping and mineral

potential mapping because gis based methods of spatial data analysis and spatial data integration are quantitative which can be complicated to non numerate readers the book simplifies explanations of mathematical concepts and their applications so that the methods demonstrated would be useful to professional geoscientists to mineral explorationists and to research students in fields that involve analysis and integration of maps or spatial datasets the book provides adequate illustrations for more thorough explanation of the various concepts explains gis functionality and spatial data structures appropriate regardless of the particular gis software in use simplifies explanation of mathematical concepts and application illustrated for more thorough explanation of concepts

Mineral Resources of Northern Alaska

1968

this book reviews research developments in diverse areas of reinforcement learning such as model free actor critic methods model based learning and control information geometry of policy searches reward design and exploration in biology and the behavioral sciences special emphasis is placed on advanced ideas algorithms methods and applications the contributed papers gathered here grew out of a lecture course on reinforcement learning held by prof jan peters in the winter semester 2018 2019 at technische universität darmstadt the book is intended for reinforcement learning students and researchers with a firm grasp of linear algebra statistics and optimization nevertheless all key concepts are introduced in each chapter making the content self contained and accessible to a broader audience

Quantitative Analysis of Mineral and Energy Resources

2012-12-06

the responsible management of natural resources for present day needs and future generations requires integrated approaches that are place based embrace systems thinking and incorporate the social economic and environmental considerations of sustainability landscape scale analysis takes this holistic view by focusing on the spatial scales most appropriate for the resource types and values being managed landscape scale analysis involves assessing landscape features in relation to a group of influencing factors such as land use change hydrologic changes or other disturbances topography and historical vegetation conditions as such different types of data and multiple disciplines may be required for landscape analysis

depending on the question of interest and scale of analysis multi resource analysis mra is an approach to landscape scale analysis that integrates information among multiple natural resources including ecosystem services and is designed to evaluate impacts and tradeoffs between development and conservation at landscape scales to inform public resource managers this approach implicitly addresses social economic and ecological functional relationships for example actions to realize the benefits of one type of natural resource e g minerals oil and gas may influence behavior and potential benefits related to other types of natural resources e g recreational opportunities in june 2015 the national academies of sciences engineering and medicine convened a workshop on using landscape based approaches and mra to better inform federal decision making for the sustainable management of natural resources participants discussed knowledge gaps and priority areas for research and presentations of case studies of approaches that have been used to effectively integrate landscape based approaches and mra into practice this report summarizes the presentations and discussions from the workshop

Applied Multiple Regression/Correlation Analysis for the Behavioral Sciences

2013-06-17

comprehensive overview of the spectroscopic mineralogical and geochemical techniques used in planetary remote sensing

Spatial Data Analysis in Ecology and Agriculture Using R

2012-03-07

the material in this volume provides the basic theory necessary to understand the principles behind imaging the subsurface of the earth using reflection and refraction seismology for reflection seismology the end product is a record section from a collection of wiggly traces that are recorded in the field from which information about the properties of subsurface structure and rock can be derived for the most part the principles of imaging are the same regardless of the depth to the target the same mathematical background is necessary for targeting a shallow water table as for investigating the base of the earth s continental crust at a depth of 30 50 km

Geochemical Anomaly and Mineral Prospectivity Mapping in GIS

2008-11-26

introduction to the mathematical foundation for understanding and analyzing machine learning algorithms for ai students and researchers

Reinforcement Learning Algorithms: Analysis and Applications

2021-01-02

the usa uzbekistan conference on analysis and mathematical physics focusing on contemporary issues in dynamical systems mathematical physics operator algebras and several complex variables was hosted by california state university fullerton from may 20 23 2014 the main objective of the conference was to facilitate scientific communication and collaboration between mathematicians from the usa and uzbekistan this volume contains the proceedings of the special session on algebra and functional analysis the theory of operator algebras is the unified theme for many papers in this volume out of four extensive survey papers two cover problems related to derivation of various algebras of functions the other two surveys are on classification of leibniz algebras and on evolution algebras the sixteen research articles are devoted to certain analytic topics such as minimal projections with respect to numerical radius functional equations and discontinuous polynomials fourier inversion for distributions schrödinger operators convexity and dynamical systems

Transactions

1968

review of the second edition for geologists and geophysicists studying sedimentary fill of basins this volume is a valuable addition to their shelves the book is packed with information includes numerous lists of references and is up to date as a source volume this book is second to none it is clear and well organized geophysics

Integrating Landscape Approaches and Multi-Resource Analysis into Natural Resource Management

2016-04-09

the vertical seismic profile acquired with an array of 3c receivers and either a single source or several arranged in a multi component configuration provides an ideal high fidelity calibration tool for seismic projects involved in the application of seismic anisotropy this book catalogues the majority of specialized tools necessary to work with p p p s and s s data from such vsp surveys at the acquisition design processing and interpretation stages in particular it discusses 3c 4c 6c and 9c vsp marine and land surveys with near and multiple offsets walkways azimuths walkarounds or a combination of both these are considered for tih or tiv flavours of seismic anisotropy arising from cracks fractures sedimentary layering and shales the anisotropic adaptation of familiar seismic methods for velocity analysis and inversion reflected amplitude interpretation are given together with more multi component specific algorithms based upon the principles dictated by the vector convolutional model thus multi component methods are described that provide tests and compensation for source or receiver vector fidelity tool rotation correction layer stripping near surface correction wavefield separation and the alford rotation with its variants the work will be of interest to geophysicists involved in research or the application of seismic anisotropy using multi component seismic

Remote Compositional Analysis

2019-11-28

Basic Theory in Reflection Seismology

2004-10-27

Mathematical Analysis of Machine Learning Algorithms

2023-07-31

Topics in Functional Analysis and Algebra

2016-08-25

Principles of Sedimentary Basin Analysis

2013-03-09

Multi-component VSP Analysis for Applied Seismic Anisotropy

2002

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