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Financial Modelling and Analysis using Microsoft Excel for non-finance personnel 2014-07-01

create an inventory system calculate loan repayments handle a production's limiting factors successfully work out customers profitability yes most of the above and much more can be achieved in microsoft excel if you understand some basic concepts of financial modelling and analysis this book was written to help any users wanting to have a clear understanding of how excel can help to perform some aspects of financial modelling and analysis using some of its built in financial and logical functions it goes further by elaborating detail exercises on the above the book introduces the basic concepts of balance sheet income statement and cash flow and builds the relevant models many books have been written on excel however this book explains some advanced techniques for sensitivity analysis and features in a rather simplified manner with plenty of screen captures wherever possible new users and existing users on excel will find this book handy

Data Analytics and Visualization in Quality Analysis Using Tableau 2023-09-25

the purpose of this book is to help quality practitioners perform effective quality control and analysis using tableau software a user friendly data analytics and visualization software it covers basic introduction to quality analysis features and functions and step by step instructions to use tableau

Conducting Meta-Analysis Using SAS 2001-06-01

conducting meta analysis using sas reviews the meta analysis statistical procedure and shows the reader how to conduct one using sas it presents and illustrates the use of the proc means procedure in sas to perform the data computations called for by the two most commonly used meta analytic procedures the hunter schmidt and glassian approaches this book serves as both an operational guide and user's manual by describing and explaining the meta analysis procedures and then presenting the appropriate sas program code for computing the pertinent statistics the practical step by step instructions quickly prepare the reader to conduct a meta analysis sample programs available on the further aid the reader in understanding the material intended for researchers students instructors and practitioners interested in conducting a meta analysis the presentation of both formulas and their associated sas program code keeps the reader and user in touch with technical aspects of the meta analysis process the book is also appropriate for advanced courses in meta analysis psychology education management and other applied social and health sciences departments

Data Analysis Using SAS Enterprise Guide 2009-08-17

this book presents the basic procedures for utilizing sas enterprise guide to analyze statistical data sas enterprise guide is a graphical user interface point and click to the main sas application each chapter contains a brief conceptual overview and then guides the reader through concrete step by step examples to complete the analyses the eleven sections of the book cover a wide range of statistical procedures including descriptive statistics correlation and simple regression t tests one way chi square data transformations multiple regression analysis of variance analysis of covariance multivariate analysis of variance factor analysis and canonical correlation analysis designed to be used either as a stand alone resource or as an accompaniment to a statistics course the book offers a smooth path to statistical analysis with sas enterprise guide for advanced undergraduate and beginning graduate students as well as professionals in psychology education business health social work sociology and many other fields

Data Analysis Using R Commander 2015-06

in this clear and practical text graeme hutcherson introduces the basics of data analysis using r and its graphical user interface r commander rcmdr to those who have never used the package before this book takes a hands on non mathematical approach that recognizes that most students and new researchers find using statistics for the first time a daunting and difficult task using screenshots and lots of easy to understand examples and drawing on an extensive set of resources on a companion website hutcherson works through the basic tasks of data analysis he provides readers with a system of analysis that they can apply to their own data in a way that is easy to understand and put into operation so that they can get started with their own analysis quickly this book deals with data descriptive statistics data analysis model diagnostics and graphics and provides a comprehensive illustration of many of the techniques that

form the basis of introductory statistics courses graeme hutcherson has succeeded in making basic data analysis easy to understand and this book will be essential reading for anyone wanting to use r to analyze their data

Modeling and Analysis with Induction Generators, Third Edition 2014-12-11

now in its third edition alternative energy systems design and analysis with induction generators has been renamed modeling and analysis with induction generators to convey the book's primary objective to present the fundamentals of and latest advances in the modeling and analysis of induction generators new to the third edition revised equations and mathematical modeling addition of solved problems as well as suggested problems at the end of each chapter new modeling and simulation cases mathematical modeling of the magnus turbine to be used with induction generators detailed comparison between the induction generators and their competitors modeling and analysis with induction generators third edition aids in understanding the process of self excitation numerical analysis of stand alone and multiple induction generators requirements for optimized laboratory experimentation application of modern vector control optimization of power transference use of doubly fed induction generators computer based simulations and social and economic impacts

A Practical Guide to Data Analysis Using R 2024-05-31

using diverse real world examples this text examines what models used for data analysis mean in a specific research context what assumptions underlie analyses and how can you check them building on the successful data analysis and graphics using r 3rd edition cambridge 2010 it expands upon topics including cluster analysis exponential time series matching seasonality and resampling approaches an extended look at p values leads to an exploration of replicability issues and of contexts where numerous p values exist including gene expression developing practical intuition this book assists scientists in the analysis of their own data and familiarizes students in statistical theory with practical data analysis the worked examples and accompanying commentary teach readers to recognize when a method works and more importantly when it doesn't each chapter contains copious exercises selected solutions notes slides and r code are available online with extensive references pointing to detailed guides to r

Statistical Analysis with R For Dummies 2017-03-03

understanding the world of r programming and analysis has never been easier most guides to r whether books or online focus on r functions and procedures but now thanks to statistical analysis with r for dummies you have access to a trusted easy to follow guide that focuses on the foundational statistical concepts that r addresses as well as step by step guidance that shows you exactly how to implement them using r programming people are becoming more aware of r every day as major institutions are adopting it as a standard part of its appeal is that it's a free tool that's taking the place of costly statistical software packages that sometimes take an inordinate amount of time to learn plus r enables a user to carry out complex statistical analyses by simply entering a few commands making sophisticated analyses available and understandable to a wide audience statistical analysis with r for dummies enables you to perform these analyses and to fully understand their implications and results gets you up to speed on the 1 analytics data science software tool demonstrates how to easily find download and use cutting edge community reviewed methods in statistics and predictive modeling shows you how r offers intel from leading researchers in data science free of charge provides information on using r studio to work with r get ready to use r to crunch and analyze your data the fast and easy way

Exploratory Data Analysis Using R 2018-05-04

exploratory data analysis using r provides a classroom tested introduction to exploratory data analysis eda and introduces the range of interesting good bad and ugly features that can be found in data and why it is important to find them it also introduces the mechanics of using r to explore and explain data the book begins with a detailed overview of data exploratory analysis and r as well as graphics in r it then explores working with external data linear regression models and crafting data stories the second part of the book focuses on developing r programs including good programming practices and examples working with text data and general predictive models the book ends with a chapter on keeping it all together that includes managing the r installation managing files documenting and an introduction to reproducible computing the book is designed for both advanced undergraduate entry level graduate students and working professionals with little to no prior exposure to data analysis modeling statistics or programming

it keeps the treatment relatively non mathematical even though data analysis is an inherently mathematical subject exercises are included at the end of most chapters and an instructor s solution manual is available about the author ronald k pearson holds the position of senior data scientist with geovera a property insurance company in fairfield california and he has previously held similar positions in a variety of application areas including software development drug safety data analysis and the analysis of industrial process data he holds a phd in electrical engineering and computer science from the massachusetts institute of technology and has published conference and journal papers on topics ranging from nonlinear dynamic model structure selection to the problems of disguised missing data in predictive modeling dr pearson has authored or co authored books including exploring data in engineering the sciences and medicine oxford university press 2011 and nonlinear digital filtering with python he is also the developer of the datacamp course on base r graphics and is an author of the datarobot and goodmankruskal r packages available from cran the comprehensive r archive network

Conducting Meta-Analysis Using SAS 2001-06

designed to teach the reader about meta analysis and show them how to conduct one using sas its focus is more applied and practical than theoretical and will include additional programming codes and examples site to house program code and sample ou

Applied Spatial Data Analysis with R 2008-08-24

we began writing this book in parallel with developing software for handling and analysing spatial data with r development core team 2008 though the book is now complete software development will continue in the r community fashion of rich and satisfying interaction with users around the world of rapid releases to resolve problems and of the usual joys and frust tions of getting things done there is little doubt that without pressure from users the development of r would not have reached its present scale and the same applies to analysing spatial data analysis with r it would however not be su cient to describe the development of the r project mainly in terms of narrowly de ned utility in addition to being a community project concerned with the development of world class data analysis software implementations it promotes speci c choices with regard to how data analysis is carried out r is open source not only because open source software development including the dynamics of broad and inclusive user and developer communities is arguably an attractive and successful development model

Data Analysis with R 2015-12-22

load wrangle and analyze your data using the world s most powerful statistical programming language about this book load manipulate and analyze data from different sources gain a deeper understanding of fundamentals of applied statistics a practical guide to performing data analysis in practice who this book is for whether you are learning data analysis for the first time or you want to deepen the understanding you already have this book will prove to an invaluable resource if you are looking for a book to bring you all the way through the fundamentals to the application of advanced and effective analytics methodologies and have some prior programming experience and a mathematical background then this is for you what you will learn navigate the r environment describe and visualize the behavior of data and relationships between data gain a thorough understanding of statistical reasoning and sampling employ hypothesis tests to draw inferences from your data learn bayesian methods for estimating parameters perform regression to predict continuous variables apply powerful classification methods to predict categorical data handle missing data gracefully using multiple imputation identify and manage problematic data points employ parallelization and rcpp to scale your analyses to larger data put best practices into effect to make your job easier and facilitate reproducibility in detail frequently the tool of choice for academics r has spread deep into the private sector and can be found in the production pipelines at some of the most advanced and successful enterprises the power and domain specificity of r allows the user to express complex analytics easily quickly and succinctly with over 7 000 user contributed packages it s easy to find support for the latest and greatest algorithms and techniques starting with the basics of r and statistical reasoning data analysis with r dives into advanced predictive analytics showing how to apply those techniques to real world data though with real world examples packed with engaging problems and exercises this book begins with a review of r and its syntax from there get to grips with the fundamentals of applied statistics and build on this knowledge to perform sophisticated and powerful analytics solve the difficulties relating to performing data analysis in practice and find solutions to working with messy data large data communicating results and facilitating reproducibility this book is engineered to be an invaluable resource through many stages of anyone s career as a data analyst style and approach learn data analysis using engaging examples and fun exercises and with a gentle and friendly but comprehensive learn by doing approach

Data Analysis in Power BI 2023-08-26

welcome to the first book to explore the powerful tools within power bi that can enhance and improve your data exploration you know power bi s reputation as a reporting dashboarding and data visualization tool but it might not occur to you that it has great value as a tool for data exploration this book examines power bi s data analysis features and shows you through real world examples how power bi can be a go to analysis tool for business users in all domains you will discover that microsoft s power bi offers all the number crunching power of excel plus versatile and impactful visualization tools that will greatly enhance your discovery process and make it easier to communicate results you will see that its data analysis expression dax language is far richer and more powerful than excel s limited and outdated mdx and its data ingestion utility is vastly superior you will learn how to unearth unexpected trends and hidden correlations that might be elusive in the numbers but will emerge in high relief using visualization speeding up analysis and making your data analysis far more complete you will build analysis pages which after you have completed a particular analysis can be preserved along with your datasets for later use and even passed along to others in an organization as what if tools hands on exercises are provided that use downloadable data sources and starter configurations of power bi files for building sample analyses downloadable excel samples of those same exercises are provided for easy comparison what you will learn understand the exploratory methodology build data sets and take a dive into dax add visualization to your analysis process incorporate r and python use power bi to extend your work who this book is for any business user who currently performs exploratory data analysis using tools other than power bi users who are not currently doing exploratory analysis but understand their data and how it is used and wish to begin studying it managers and executives who wish to expand their organization s use of analytics and encourage new skills in their business workforce experience with microsoft excel is helpful but not essential

Data Analysis with Python 2018-12-31

learn a modern approach to data analysis using python to harness the power of programming and ai across your data detailed case studies bring this modern approach to life across visual data social media graph algorithms and time series analysis key featuresbridge your data analysis with the power of programming complex algorithms and aiuse python and its extensive libraries to power your way to new levels of data insightwork with ai algorithms tensorflow graph algorithms nlp and financial time seriesexplore this modern approach across with key industry case studies and hands on projectsbook description data analysis with python offers a modern approach to data analysis so that you can work with the latest and most powerful python tools ai techniques and open source libraries industry expert david taieb shows you how to bridge data science with the power of programming and algorithms in python you ll be working with complex algorithms and cutting edge ai in your data analysis learn how to analyze data with hands on examples using python based tools and jupyter notebook you ll find the right balance of theory and practice with extensive code files that you can integrate right into your own data projects explore the power of this approach to data analysis by then working with it across key industry case studies four fascinating and full projects connect you to the most critical data analysis challenges you re likely to meet in today the first of these is an image recognition application with tensorflow embracing the importance today of ai in your data analysis the second industry project analyses social media trends exploring big data issues and ai approaches to natural language processing the third case study is a financial portfolio analysis application that engages you with time series analysis pivotal to many data science applications today the fourth industry use case dives you into graph algorithms and the power of programming in modern data science you ll wrap up with a thoughtful look at the future of data science and how it will harness the power of algorithms and artificial intelligence what you will learn a new toolset that has been carefully crafted to meet for your data analysis challengesfull and detailed case studies of the toolset across several of today s key industry contextsbecome super productive with a new toolset across python and jupyter notebooklook into the future of data science and which directions to develop your skills nextwho this book is for this book is for developers wanting to bridge the gap between them and data scientists introducing pixiedust from its creator the book is a great desk companion for the accomplished data scientist some fluency in data interpretation and visualization is assumed it will be helpful to have some knowledge of python using python libraries and some proficiency in web development

The Practice of Qualitative Data Analysis 2024-03-08

this book is a companion to the first volume of the practice of qualitative data analysis published in 2021 volume 2 provides an additional nine case studies of real world examples that illustrate how maxqda is used in actual research projects each chapter is organized to walk the reader through the research

example beginning with an introduction to the topic a discussion of data collection and methodological approach and a step by step description of how they used maxqda from start to finish gaining insights into both efficient ways to use maxqda and innovative approaches they might not be aware of readers can benefit from this book in several ways get inspirations and solutions for their own projects learn more about innovative methodological approaches avoid pitfalls by learning from the lessons offered by the authors at the end of each chapter draw insights from more than 120 screenshots that illustrate qualitative research in practice audience all researchers who want to get to learn the potential of qualitative data analysis with maxqda all maxqda users who want to expand their knowledge and skills regardless of whether they are novices or experts

Behavior Analysis with Machine Learning Using R 2021-11-26

behavior analysis with machine learning using r introduces machine learning and deep learning concepts and algorithms applied to a diverse set of behavior analysis problems it focuses on the practical aspects of solving such problems based on data collected from sensors or stored in electronic records the included examples demonstrate how to perform common data analysis tasks such as data exploration visualization preprocessing data representation model training and evaluation all of this using the r programming language and real life behavioral data even though the examples focus on behavior analysis tasks the covered underlying concepts and methods can be applied in any other domain no prior knowledge in machine learning is assumed basic experience with r and basic knowledge in statistics and high school level mathematics are beneficial features build supervised machine learning models to predict indoor locations based on wifi signals recognize physical activities from smartphone sensors and 3d skeleton data detect hand gestures from accelerometer signals and so on program your own ensemble learning methods and use multi view stacking to fuse signals from heterogeneous data sources use unsupervised learning algorithms to discover criminal behavioral patterns build deep learning neural networks with tensorflow and keras to classify muscle activity from electromyography signals and convolutional neural networks to detect smiles in images evaluate the performance of your models in traditional and multi user settings build anomaly detection models such as isolation forests and autoencoders to detect abnormal fish behaviors this book is intended for undergraduate graduate students and researchers from ubiquitous computing behavioral ecology psychology e health and other disciplines who want to learn the basics of machine learning and deep learning and for the more experienced individuals who want to apply machine learning to analyze behavioral data

Time Series Analysis and Forecasting Using Python & R 2020-11-28

this book full color textbook assumes a basic understanding of statistics and mathematical or statistical modeling although a little programming experience would be nice but it is not required we use current real world data like covid 19 to motivate times series analysis have three thread problems that appear in nearly every chapter got milk got a job and where s the beef chapter 1 loading data in the r studio and jupyter notebook environments chapter 2 components of a times series and decomposition chapter 3 moving averages mas and covid 19 chapter 4 simple exponential smoothing ses holt s and holt winter s double and triple exponential smoothing chapter 5 python programming in jupyter notebook for the concepts covered in chapters 2 3 and 4 chapter 6 stationarity and differencing including unit root tests chapter 7 arima and sarmia seasonal modeling and forecast development chapter 8 arima modeling using python chapter 9 structural models and analysis using unobserved component models ucms chapter 10 advanced time series analysis including time series interventions exogenous regressors and vector autoregressive var processes

Text Analysis with R 2020-03-30

now in its second edition text analysis with r provides a practical introduction to computational text analysis using the open source programming language r r is an extremely popular programming language used throughout the sciences due to its accessibility r is now used increasingly in other research areas in this volume readers immediately begin working with text and each chapter examines a new technique or process allowing readers to obtain a broad exposure to core r procedures and a fundamental understanding of the possibilities of computational text analysis at both the micro and the macro scale each chapter builds on its predecessor as readers move from small scale microanalysis of single texts to large scale macroanalysis of text corpora and each concludes with a set of practice exercises that reinforce and expand upon the chapter lessons the book s focus is on making the technical palatable and making the technical useful and immediately gratifying text analysis with r is written with

students and scholars of literature in mind but will be applicable to other humanists and social scientists wishing to extend their methodological toolkit to include quantitative and computational approaches to the study of text computation provides access to information in text that readers simply cannot gather using traditional qualitative methods of close reading and human synthesis this new edition features two new chapters one that introduces dplyr and tidyr in the context of parsing and analyzing dramatic texts to extract speaker and receiver data and one on sentiment analysis using the syuzhet package it is also filled with updated material in every chapter to integrate new developments in the field current practices in r style and the use of more efficient algorithms

Meta-Analysis with R 2015-10-08

this book provides a comprehensive introduction to performing meta analysis using the statistical software r it is intended for quantitative researchers and students in the medical and social sciences who wish to learn how to perform meta analysis with r as such the book introduces the key concepts and models used in meta analysis it also includes chapters on the following advanced topics publication bias and small study effects missing data multivariate meta analysis network meta analysis and meta analysis of diagnostic studies

Policy Analysis in the United States 2018-02-21

policy analysis in the united states gathers a group of original contributions by scholars and leading practitioners of public policy analysis originating in the united states the field of public policy analysis has affected nations around the world and been enhanced by contributions of scholars and practitioners in other regions but it remains most highly developed and practiced in education and government here this volume explores the nature of policy analysis in different sectors and at different levels of government as well as by nongovernmental actors such as unions businesses ngos and the media

Compositional Data Analysis in Practice 2018-07-17

compositional data analysis in practice is a user oriented practical guide to the analysis of data with the property of a constant sum for example percentages adding up to 100 compositional data can give misleading results if regular statistical methods are applied and are best analysed by first transforming them to logarithms of ratios this book explains how this transformation affects the analysis results and interpretation of this very special type of data all aspects of compositional data analysis are considered visualization modelling dimension reduction clustering and variable selection with many examples in the fields of food science archaeology sociology and biochemistry and a final chapter containing a complete case study using fatty acid compositions in ecology the applicability of these methods extends to other fields such as linguistics geochemistry marketing economics and finance r software the following repository contains data files and r scripts from the book github.com/michaelgreenacre/codainpractice the r package easycoda which accompanies this book is available on cran note that you should have version 0.25 or higher the latest version of the package will always be available on r forge and can be installed from r with this instruction `install.packages(easycoda, repos = "http://rforge.r-project.org")`

Qualitative Analysis Using MAXQDA 2018

the method of five level qda r helps researchers to analyse what makes for an expert analytic performance when using qualitative data analysis software written by experienced trainers this practical guide to maxqda will allow qualitative researchers to increase the effectiveness of their data analysis

Singular Spectrum Analysis 2018-06-25

this book provides a broad introduction to computational aspects of singular spectrum analysis ssa which is a non parametric technique and requires no prior assumptions such as stationarity normality or linearity of the series this book is unique as it not only details the theoretical aspects underlying ssa but also provides a comprehensive guide enabling the user to apply the theory in practice using the r software further it provides the user with step by step coding and guidance for the practical application of the ssa technique to analyze their time series databases using r the first two chapters present basic notions of univariate and multivariate ssa and their implementations in r environment the next chapters discuss the applications of ssa to change point detection missing data imputation smoothing and filtering this book is appropriate for researchers upper level students masters level and beyond and practitioners wishing to revive their knowledge of times series analysis or to quickly learn about the main mechanisms

of ssa

Applied Compositional Data Analysis 2018-11-03

this book presents the statistical analysis of compositional data using the log ratio approach it includes a wide range of classical and robust statistical methods adapted for compositional data analysis such as supervised and unsupervised methods like pca correlation analysis classification and regression in addition it considers special data structures like high dimensional compositions and compositional tables the methodology introduced is also frequently compared to methods which ignore the specific nature of compositional data it focuses on practical aspects of compositional data analysis rather than on detailed theoretical derivations thus issues like graphical visualization and preprocessing treatment of missing values zeros outliers and similar artifacts form an important part of the book since it is primarily intended for researchers and students from applied fields like geochemistry chemometrics biology and natural sciences economics and social sciences all the proposed methods are accompanied by worked out examples in r using the package robcompositions

Computational Modeling and Data Analysis in COVID-19 Research 2021-05-09

this book covers recent research on the covid 19 pandemic it includes the analysis implementation usage and proposed ideas and models with architecture to handle the covid 19 outbreak using advanced technologies such as artificial intelligence ai and machine learning ml techniques for data analysis this book will be helpful to mitigate exposure and ensure public health we know prevention is better than cure so by using several ml techniques researchers can try to predict the disease in its early stage and develop more effective medications and treatments computational technologies in areas like ai ml internet of things iot and drone technologies underlie a range of applications that can be developed and utilized for this purpose because in most cases there is no one solution to stop the spreading of pandemic diseases and the integration of several tools and tactics are needed many successful applications of ai ml iot and drone technologies already exist including systems that analyze past data to predict and conclude some useful information for controlling the spread of covid 19 infections using minimum resources the ai and ml approach can be helpful to design different models to give a predictive solution for mitigating infection and preventing larger outbreaks this book examines the use of artificial intelligence ai machine learning ml internet of things iot and drone technologies as a helpful predictive solution for controlling infection of covid 19 covers recent research related to the covid 19 pandemic and includes the analysis implementation usage and proposed ideas and models with architecture to handle a pandemic outbreak examines the performance implementation architecture and techniques of different analytical and statistical models related to covid 19 includes different case studies on covid 19 dr chhabi rani panigrahi is assistant professor in the department of computer science at rama devi women s university bhubaneswar india dr bibudhendu pati is associate professor and head of the department of computer science at rama devi women s university bhubaneswar india dr mamata rath is assistant professor in the school of management information technology at birla global university bhubaneswar india prof rajkumar buyya is a redmond barry distinguished professor and director of the cloud computing and distributed systems clouds laboratory at the university of melbourne australia

Data Analysis with R, Second Edition 2018-03-28

learn by example the fundamentals of data analysis as well as several intermediate to advanced methods and techniques ranging from classification and regression to bayesian methods and mcmc which can be put to immediate use key features analyze your data using r the most powerful statistical programming language learn how to implement applied statistics using practical use cases use popular r packages to work with unstructured and structured data book description frequently the tool of choice for academics r has spread deep into the private sector and can be found in the production pipelines at some of the most advanced and successful enterprises the power and domain specificity of r allows the user to express complex analytics easily quickly and succinctly starting with the basics of r and statistical reasoning this book dives into advanced predictive analytics showing how to apply those techniques to real world data though with real world examples packed with engaging problems and exercises this book begins with a review of r and its syntax with packages like rcpp ggplot2 and dplyr from there get to grips with the fundamentals of applied statistics and build on this knowledge to perform sophisticated and powerful analytics solve the difficulties relating to performing data analysis in practice and find solutions to working with messy data large data communicating results and facilitating reproducibility this book is engineered to be an invaluable resource through many stages of anyone s career as a data analyst what

you will learn gain a thorough understanding of statistical reasoning and sampling theory employ hypothesis testing to draw inferences from your data learn bayesian methods for estimating parameters train regression classification and time series models handle missing data gracefully using multiple imputation identify and manage problematic data points learn how to scale your analyses to larger data with rcpp data table dplyr and parallelization put best practices into effect to make your job easier and facilitate reproducibility who this book is for budding data scientists and data analysts who are new to the concept of data analysis or who want to build efficient analytical models in r will find this book to be useful no prior exposure to data analysis is needed although a fundamental understanding of the r programming language is required to get the best out of this book

Qualitative Comparative Analysis Using R 2021-10-28

this book offers a hands on introduction and teaching resource for students users and teachers of qualitative comparative analysis qca ragin 1987 2000 2008b given its superior ability to model certain aspects of complexity qca has made inroads into virtually every social science discipline and beyond software solutions for qca have also been developing at a fast pace this book seeks to reduce the time and effort required when we first encounter the logic of not just a new method but also new software it offers a genuinely simple intuitive and hands on resource for implementing the state of the art protocol of qca using r the most advanced software environment for qca our book has an applied and practical focus

A Practical Guide to Gas Analysis by Gas Chromatography 2019-06-28

a practical gas analysis by gas chromatography provides a detailed overview of the most important aspects of gas analysis by gas chromatography gc for both the novice and expert authors john swinley and piet de coning provide the necessary information on the selection of columns and components thus allowing the reader to assemble custom gas analysis systems for specific needs the book brings together a wide range of disparate literature on this technique that will fill a crucial gap for those who perform different types of research including lab operators separation scientists graduate students and academic researchers this highly practical up to date reference can be consulted in the lab to guide key decisions about proper setup hardware and software selection calibration analysis and more allowing researchers to avoid the common pitfalls caused by incorrect infrastructure shows in detail how valve configurations work allowing readers to understand the building blocks of extremely complex systems presents the complete infrastructure for setting up a gas analysis laboratory in a single source includes a full chapter on practical analytical systems for analyzing various gas mixtures

Spatial Analysis in Health Geography 2016-03-09

presenting current research on spatial epidemiology this book covers topics such as exposure chronic disease infectious disease accessibility to health care settings and new methods in geographical information science and systems for epidemiologists and for the management and administration of health care settings it is critical to understand the spatial dynamics of disease for instance it is crucial that hospital administrators develop an understanding of the flow of patients over time especially during an outbreak of a particular disease so they can plan for appropriate levels of staffing and to carry out adaptive prevention measures furthermore understanding where and why a disease occurs at a certain geographic location is vital for decision makers to formulate policy to increase the accessibility to health services either by prevention or adding new facilities spatial epidemiology relies increasingly on new methodologies such as clustering algorithms visualization and space time modelling the domain of geographic information science implementation of those techniques appears at an increasing pace in commercial geographic information systems alongside more traditional techniques that are already part of such systems this book provides the latest methods in gi science and their use in health related problems

Basin Analysis in Petroleum Exploration 2012-12-06

this volume summarizes in 16 chapters the petroleum geology of the békés basin with respect to its geological setting in the pannonian basin the work was accomplished by a joint effort of the hungarian oil and gas co and u s geological survey in contrast with other books that discuss the geology of hungary this volume identifies in detail potential source rocks and reservoir rocks and evaluates the maturation generation migration and entrapment of hydrocarbons the outstanding points are 1 its summary of the

petroleum geology of the békés basin with respect to its structural and sedimentological setting in the pannonian basin 2 the identification of geographic areas structural trends and stratigraphic zones that remain relatively unexplored and 3 a summary of petroleum plays with an assessment of their recoverable undiscovered resources of oil and gas this book is primarily for petroleum geologists interested in oil and gas exploration in hungary and earth scientists interested in the geology of the pannonian basin

Data Analysis Using the Method of Least Squares 2009-09-02

develops the full power of the least squares method enables engineers and scientists to apply the method to their specific problem deals with linear as well as with non linear least squares parametric as well as non parametric methods

An Introduction to Applied Multivariate Analysis with R 2011-04-23

the majority of data sets collected by researchers in all disciplines are multivariate meaning that several measurements observations or recordings are taken on each of the units in the data set these units might be human subjects archaeological artifacts countries or a vast variety of other things in a few cases it may be sensible to isolate each variable and study it separately but in most instances all the variables need to be examined simultaneously in order to fully grasp the structure and key features of the data for this purpose one or another method of multivariate analysis might be helpful and it is with such methods that this book is largely concerned multivariate analysis includes methods both for describing and exploring such data and for making formal inferences about them the aim of all the techniques is in general sense to display or extract the signal in the data in the presence of noise and to find out what the data show us in the midst of their apparent chaos an introduction to applied multivariate analysis with r explores the correct application of these methods so as to extract as much information as possible from the data at hand particularly as some type of graphical representation via the r software throughout the book the authors give many examples of r code used to apply the multivariate techniques to multivariate data

Applied Time Series Analysis with R 2017

failure analysis in biocomposites fibre reinforced composites and hybrid composites covers key aspects of fracture and failure in natural synthetic fiber reinforced polymer based composite materials ranging from crack propagation to crack growth and from notch size effect to damage tolerant design the book describes a broad range of techniques and strategies for the compositional and failure analysis of polymeric materials and products it also illustrates the application of analytical methods for solving commonly encountered problems topics of interest include failure analysis mechanical and physical properties structural health monitoring durability and life prediction modelling of damage processes of natural fiber synthetic fibers and more written by leading experts in the field and covering composite materials developed from different natural fibers and their hybridization with synthetic fibers the book s chapters provide cutting edge up to date research on the characterization analysis and modelling of composite materials contains contributions from leading experts in the field discusses recent progress on failure analysis shm durability life prediction and the modelling of damage in natural fiber based composite materials covers experimental analytical and numerical analysis provides detailed and comprehensive information on mechanical properties testing methods and modelling techniques

Failure Analysis in Biocomposites, Fibre-Reinforced Composites and Hybrid Composites 2018-09-17

this comprehensive and richly illustrated volume provides up to date material on singular spectrum analysis ssa ssa is a well known methodology for the analysis and forecasting of time series since quite recently ssa is also being used to analyze digital images and other objects that are not necessarily of planar or rectangular form and may contain gaps ssa is multi purpose and naturally combines both model free and parametric techniques which makes it a very special and attractive methodology for solving a wide range of problems arising in diverse areas most notably those associated with time series and digital images an effective comfortable and accessible implementation of ssa is provided by the r package rssa which is available from cran and reviewed in this book written by prominent statisticians who have extensive experience with ssa the book a presents the up to date ssa methodology including multidimensional extensions in language accessible to a large circle of users b combines different

versions of ssa into a single tool c shows the diverse tasks that ssa can be used for d formally describes the main ssa methods and algorithms and e provides tutorials on the rssa package and the use of ssa the book offers a valuable resource for a very wide readership including professional statisticians specialists in signal and image processing as well as specialists in numerous applied disciplines interested in using statistical methods for time series analysis forecasting signal and image processing the book is written on a level accessible to a broad audience and includes a wealth of examples hence it can also be used as a textbook for undergraduate and postgraduate courses on time series analysis and signal processing

Singular Spectrum Analysis with R 2018-06-14

this unique book addresses the statistical modelling and analysis of microbiome data using cutting edge r software it includes real world data from the authors research and from the public domain and discusses the implementation of r for data analysis step by step the data and r computer programs are publicly available allowing readers to replicate the model development and data analysis presented in each chapter so that these new methods can be readily applied in their own research the book also discusses recent developments in statistical modelling and data analysis in microbiome research as well as the latest advances in next generation sequencing and big data in methodological development and applications this timely book will greatly benefit all readers involved in microbiome ecology and microarray data analyses as well as other fields of research

Statistical Analysis of Microbiome Data with R 2018-10-06

recently the use of statistical tools methodologies and models in human resource management hrm has increased because of human resources hr analytics and predictive hr decision making to utilize these technological tools hr managers and students must increase their knowledge of the resources optimum application statistical tools and analysis in human resources management is a critical scholarly resource that presents in depth details on the application of statistics in every sphere of hr functions for optimal decision making and analytical solutions featuring coverage on a broad range of topics such as leadership industrial relations training and development and diversity management this book is geared towards managers professionals upper level students administrators and researchers seeking current information on the integration of hrm technologies

Statistical Tools and Analysis in Human Resources Management 2018-01-12

this volume offers a comprehensive overview of the many ways in which the policy analysis movement has been conducted and to what effect in canadian governments and for the first time in business associations labour unions universities and other non governmental organizations

Policy Analysis in Canada 2007-01-01

this book explains how improvements in intelligence analysis can bene t policing written by experts with experience in police higher education and professional practice this accessible text provides students with both practical knowledge and a critical understanding of the subject the book is divided into three key parts part one outlines how the concept of intelligence was initially embraced and implemented by the police and provides a critique of intelligence sources it examines the strategic use of intelligence and its procedural framework it provides a summary of the role of the intelligence analyst establishing the characteristics of effective practitioners part two describes good practice and explains the practical tools and techniques that effective analysts use in the reduction and investigation of crime part three examines more recent developments in intelligence analysis and looks to the future this includes the move to multi agency working the advent of big data and the role of ai and machine learning filled with case studies and practical examples this book is essential reading for all undergraduates and postgraduates taking courses in professional policing and criminal justice more widely it will also be of interest to existing practitioners in this field

Improving Intelligence Analysis in Policing 2021-06-08

are you struggling to get to grips with qualitative data analysis do you need help getting started using atlas ti do you find software manuals difficult to relate to written by a leading expert on atlas ti this book will guide you step by step through using the software to support your research project in this updated second edition you will find clear practical advice on preparing your data setting up a new project in atlas

ti developing a coding system asking questions finding answers and preparing your results the new edition features methodological as well as technical advice numerous practical exercises and examples screenshots showing you each stage of analysis in version 7 of atlas ti increased coverage of transcription new sections on analysing video and multimedia data a companion website with online tutorials and data sets susanne friese teaches qualitative methods at the university of hanover and at various phd schools provides training and consultancy for atlas ti at the intersection between developers and users

Qualitative Data Analysis with ATLAS. Ti 2014-04-01

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