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Open Source Tools Philipp K Janert  
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*Global Analysis on Open Manifolds Open Problems in Optimization and Data Analysis How to be Critically Open-Minded: A Psychological and Historical Analysis Open-Source Software for Neurodata Curation and Analysis Dynamic Analysis of Open Economies Open Source Software for Statistical Analysis of Big Data Analysis of Open Educational Resources AMSTAT News Liquidity Creation and Financial Fragility An Introduction to Spatial Data Analysis The Foundations of Quantum Mechanics A Study of the Analysis of Open-spandrel Arch Bridges Digital Forensics with Open Source Tools Dynamic General Equilibrium Analysis Approximate Analysis of Open Exponential Queueing Networks with Blocking: General Configuration Single-electron Analysis and Open Charm Cross Section in Proton-proton Collisions at  $\sqrt{s}$  A Spectrographic Analysis of Open and Closed Tones in Singers Catalogue Macroeconomic Analysis for Small Open Economies Data Collection and Analysis Discourse as Data Health Care Demonstration Series Economic Analysis of Open-lot Feeding of Cattle and Sheep in Denizli Province(1966-67). Modeling and Analysis of Transient Processes in Open Resonant Structures Host Bibliographic Record for Boundwith Item Barcode 30112113333022*

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*Increased use of curved sandwich panels as aerospace structure components makes it vital to fully understand their thermostructural behavior and identify key factors affecting the open-mode debonding failure. Open-mode debonding analysis is performed on a family of curved honeycomb-core sandwich panels with different radii of curvature. The curved sandwich panels are either simply supported or clamped, and are subjected to uniform heating on the convex side and uniform cryogenic cooling on the concave side. The finite-element method was used to study the effects of panel curvature and boundary condition on the open-mode stress (radial tensile stress) and*

displacement fields in the curved sandwich panels. The critical stress point, where potential debonding failure could initiate, was found to be at the midspan (or outer span) of the inner bonding interface between the sandwich core and face sheet on the concave side, depending on the boundary condition and panel curvature. Open-mode stress increases with increasing panel curvature, reaching a maximum value at certain high curvature, and then decreases slightly as the panel curvature continues to increase and approach that of quarter circle. Changing the boundary condition from simply supported to clamped reduces the magnitudes of open-mode stresses and the associated sandwich core depth stretching.

*Digital Forensics with Open Source Tools* is the definitive book on investigating and analyzing computer systems and media using open source tools. The book is a technical procedural guide, and explains the use of open source tools on Mac, Linux and Windows systems as a platform for performing computer forensics. Both well-known and novel forensic methods are demonstrated using command-line and graphical open source computer forensic tools for examining a wide range of target systems and artifacts. Written by world-renowned forensic practitioners, this book uses the most current examination and analysis techniques in the field. It consists of 9 chapters that cover a range of topics such as the open source examination platform; disk and file system analysis; Windows systems and artifacts;

*Linux systems and artifacts; Mac OS X systems and artifacts; Internet artifacts; and automating analysis and extending capabilities. The book lends itself to use by students and those entering the field who do not have means to purchase new tools for different investigations. This book will appeal to forensic practitioners from areas including incident response teams and computer forensic investigators; forensic technicians from legal, audit, and consulting firms; and law enforcement agencies. Written by world-renowned forensic practitioners Details core concepts and techniques of forensic file system analysis Covers analysis of artifacts from the Windows, Mac, and Linux operating systems In a lively and subversive analysis, psychologist John Lambie explains how to see another person's point of view while remaining critical - in other words how to be 'critically open-minded'. Using entertaining examples from history and psychology, Lambie explores the implications of critical open-mindedness for scientific and moral progress. This book describes a systematic approach to scattering of transient fields which can be introduced in undergraduate or graduate courses. The initial boundary value problems considered describe the transient electromagnetic fields formed by open periodic, compact, and waveguide resonators. The methods developed and the mathematical and physical results obtained provide a basis on which a modern theory for the scattering of resonant non-harmonic waves can be*

developed. This book focuses on the use of open source software for geospatial analysis. It demonstrates the effectiveness of the command line interface for handling both vector, raster and 3D geospatial data. Appropriate open-source tools for data processing are clearly explained and discusses how they can be used to solve everyday tasks. A series of fully worked case studies are presented including vector spatial analysis, remote sensing data analysis, landcover classification and LiDAR processing. A hands-on introduction to the application programming interface (API) of GDAL/OGR in Python/C++ is provided for readers who want to extend existing tools and/or develop their own software.

*The Art of Company Valuation and Financial Statement Analysis: A value investor's guide with real-life case studies* covers all quantitative and qualitative approaches needed to evaluate the past and forecast the future performance of a company in a practical manner. Is a given stock over or undervalued? How can the future prospects of a company be evaluated? How can complex valuation methods be applied in practice? *The Art of Company Valuation and Financial Statement Analysis* answers each of these questions and conveys the principles of company valuation in an accessible and applicable way. Valuation theory is linked to the practice of investing through financial statement analysis and interpretation, analysis of business models, company valuation, stock analysis, portfolio management and value

*Investing. The book's unique approach is to illustrate each valuation method with a case study of actual company performance. More than 100 real case studies are included, supplementing the sound theoretical framework and offering potential investors a methodology that can easily be applied in practice. Written for asset managers, investment professionals and private investors who require a reliable, current and comprehensive guide to company valuation, the book aims to encourage readers to think like an entrepreneur, rather than a speculator, when it comes to investing in the stock markets. It is an approach that has led many to long term success and consistent returns that regularly outperform more opportunistic approaches to investment. This is a completely updated edition of the internationally successful, user-friendly guide that takes students and researchers through the often daunting process of analysing research data with the widely used SPSS software package. Fully revised and updated for IBM SPSS Statistics Version 21, this text guides you through the entire research process & helps you choose the right data analysis technique for your project. From the formulation of research questions, to the design of the study and analysis of data, to reporting the results, it discusses basic and advanced statistical techniques. It outlines each technique clearly, with step-by-step procedures for performing the analysis, a detailed guide to interpreting data output and an example of how to*

present the results in a report. -- Publisher description. Master's Thesis from the year 2014 in the subject Computer Science - Applied, grade: A-, , course: Master of Applied Science in Information Systems Management, language: English, abstract: The aim of this study was to determine the status of the United Arab Emirates' Open Government Data usability within the mobile application development. This was done by reviewing the usability factors to develop a mobile application and assess the OGD datasets. An assessment instrument was designed by the researcher based on the reviewed usability factors, to assess the UAE OGD datasets. From the study it was clear that major factors in mobile application development usability by OGD are data completeness, data format and support for developers by offering Application Programming Interface (API) and guides, majority of datasets were found to be complete an indication that UAE OGD has a strong point in data completeness. However, the current UAE OGD does not encourage the developers to build mobile applications because lack of data format support and missing of API and guides. Guidelines to improve the current UAE OGD have been proposed based on the results. The civil society for a number of years has been pressing the government to produce machine readable presentations of the collected data. One of the greatest Open Government Data (OGD) goal was to aid developers come up with mobile application that can improve citizen's

live and in turn also enhance the country's economy. Mobile applications forms a powerful channel to serve and reach businesses and citizens, hence the study aims at analyzing and evaluating the present UAE OGD usability for developing mobile applications that can be used to aid UAE through identification of current OGD weaknesses and the needed solution. 'A highly effective introduction which gives readers a clear sense of how to analyze discourse data and then employ the analytic approaches in their own research' - David Silverman, Goldsmith's College, University of London This workbook will be invaluable for students across the social sciences who need to learn how to analyze discourse. Using a step-by-step approach, students are introduced to the principal range of methods for analyzing different types of text, taken through key analytic concepts, offered specimen analyses and given the opportunity to try out analytic concepts on new data. Discourse as Data is organized around eight chapters, six of which are related to the domains covered in the Reader, and top and tailed by two chapters which set up common methodological issues in discourse research relevant to all approaches (such as transcription and the application and the critical evaluation of discourse research). Though the text will be a perfect companion to the simultaneously published Reader, its broad coverage, combined with didactic, practical guidance should make this important reading for



any student or researcher wishing to learn more about discourse analysis. This book will be ideal as a teaching tool, and an invaluable aid on discourse analysis courses, which have a practical content, most notably within the fields of psychology, cultural and media studies, sociology and linguistics. This book is a course reader for The Open University course Discourse Analysis (D843). Unemployment in Open Economies studies how domestic labour markets are influenced by a changing international environment. It combines the recently developed search and matching models with standard models of international trade. By this method, the reader gains new insights in the ongoing debate on how globalisation can affect unemployment. The author develops a collection of models showing that globalisation can be one reason for long-known and well-documented phenomena on the labour market. She puts emphasis on country differences by studying the role of individual risk behavior and the wage setting on the unemployment level. Open-end real estate funds (OEREFs) are the predominant vehicle in Germany for channeling private capital flows into commercial real estate markets. They transform longer-term investment projects into daily redeemable claims. To the extent that OEREFs stand ready to both issue new shares and redeem outstanding ones on a daily basis they provide valuable liquidity transformation. At the same time, they become susceptible to run phenomena.

*This dissertation analyzes the inherent fragility of open-end real estate funds in light of the German open-end fund crisis of 2005/06. The dissertation comprises three papers. The first paper explores how fund performance and other factors influenced capital flows into OEREFs before, during and after the German open-end fund crisis of 2005/06. The second paper looks at the valuation practice of OEREFs and assesses whether funds have suffered from a valuation problem. It finds evidence in support of the view that systematic deviations of appraised values from prices achieved in the market were at the heart of the 2005/06 German open-end fund crisis. The third paper relates findings from banking theory to OEREFs. It explores under which conditions the open-end fund contract resembles a demand deposit contract that is prone not only to panics but also to fundamental runs. The dissertation concludes by discussing policy options to mitigate the run problem. This book focuses on developments in complex dynamical systems and geometric function theory over the past decade, showing strong links with other areas of mathematics and the natural sciences. Traditional methods and approaches surface in physics and in the life and engineering sciences with increasing frequency - the Schramm-Loewner evolution, Laplacian growth, and quadratic differentials are just a few typical examples. This book provides a representative overview of these processes and collects open problems in the various areas,*

while at the same time showing where and how each particular topic evolves. This volume is dedicated to the memory of Alexander Vasiliev. "This book explores topics in the field of open source software for big data"-- Computational and theoretical open problems in optimization, computational geometry, data science, logistics, statistics, supply chain modeling, and data analysis are examined in this book. Each contribution provides the fundamentals needed to fully comprehend the impact of individual problems. Current theoretical, algorithmic, and practical methods used to circumvent each problem are provided to stimulate a new effort towards innovative and efficient solutions. Aimed towards graduate students and researchers in mathematics, optimization, operations research, quantitative logistics, data analysis, and statistics, this book provides a broad comprehensive approach to understanding the significance of specific challenging or open problems within each discipline. The contributions contained in this book are based on lectures focused on "Challenges and Open Problems in Optimization and Data Science" presented at the Deucalion Summer Institute for Advanced Studies in Optimization, Mathematics, and Data Science in August 2016. Readers will learn the essentials of spatial data handling using the open source software QGIS and be guided through the first steps in using the R programming language. The book includes the fundamentals of spatial data handling and

analysis, working with real data from field to analysis. Global analysis is the analysis on manifolds. Since the middle of the sixties there exists a highly elaborated setting if the underlying manifold is compact, evidence of which can be found in index theory, spectral geometry, the theory of harmonic maps, many applications to mathematical physics on closed manifolds like gauge theory, Seiberg-Witten theory, etc. If the underlying manifold is open, i.e. non-compact and without boundary, then most of the foundations and of the great achievements fail. Elliptic operators are no longer Fredholm, the analytical and topological indexes are not defined, the spectrum of self-adjoint elliptic operators is no longer discrete, functional spaces strongly depend on the operators involved and the data from geometry, many embedding and module structure theorems do not hold, manifolds of maps are not defined, etc. It is the goal of this new book to provide serious foundations for global analysis on open manifolds, to discuss the difficulties and special features which come from the openness and to establish many results and applications on this basis. This book explores what it is like to be involved in contemporary open adoption, characterised by varying forms of contact with birth relatives, from an adoptive parent point of view. The author's fine-grained interpretative phenomenological analysis of adopters' accounts reveals the complexity of kinship for those whose most significant

relationships are made, unmade and permanently altered through adoption. MacDonald distinctively connects adoption to wider sociological theories of relatedness and personal life, and focuses on domestic non-kin adoption of children from state care, including compulsory adoption. The book also addresses current child welfare concerns, and suggestions are made for adoption practice. The book will be of interest to scholars and students with an interest in adoption, social work, child welfare, foster care, family and sociology. In *The Foundations of Quantum Mechanics - Historical Analysis and Open Questions*, leading Italian researchers involved in different aspects of the foundations and history of quantum mechanics are brought together in an interdisciplinary debate. The book therefore presents an invaluable overview of the state of Italian work in the field at this moment, and of the open problems that still exist in the foundations of the theory. Audience: Physicists, logicians, mathematicians and epistemologists whose research concerns the historical analysis of quantum mechanics. In simple and non-technical terms, this text illustrates a wide range of techniques and approaches used in social research projects. This book provides the first English language account of the interview method known as the PCI. Offering a way of collecting knowledge by means of involving people actively in the research process, the interviewer takes the role of a well-

*informed traveller. With careful preparation and planning, the interviewer sets out with priorities and expectations, but the story the interviewer tells about his journey depends on the people encountered along the road. Novice and experienced interview researchers across the social, educational and health sciences will find this an invaluable guide to conducting interviews. Andreas Witzel is senior researcher (retired) at the University of Bremen and former director of the Bremen Archive for Life Course Research. Herwig Reiter is senior researcher in the Department of Social Monitoring and Methodology of the German Youth Institute in Munich.*

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