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### KEY=SCILAB - DRAKE RAMIREZ

**Introduction to Python in Earth Science Data Analysis From Descriptive Statistics to Machine Learning** Springer Nature This textbook introduces the use of Python programming for exploring and modelling data in the field of Earth Sciences. It drives the reader from his very first steps with Python, like setting up the environment and starting writing the first lines of codes, to proficient use in visualizing, analyzing, and modelling data in the field of Earth Science. Each chapter contains explicative examples of code, and each script is commented in detail. The book is minded for very beginners in Python programming, and it can be used in teaching courses at master or PhD levels. Also, Early careers and experienced researchers who would like to start learning Python programming for the solution of geological problems will benefit the reading of the book. **Twelve Years a Slave** Prabhakar Prakashan "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt **Updates in Volcanology Transdisciplinary Nature of Volcano Science** Updates in Volcanology - Transdisciplinary Nature of Volcano Science is a true reflection of the recent advancement of volcano science to a geosystem science based on a strong source-to-surface or process-to-consequences nature, all centered around the transdisciplinary nature of volcanology. The book contains a balanced set of chapters dealing with traditional approaches within volcanology from petrogenetic aspects of magmatic systems to volcano models. The book also provides a comprehensive set of outputs along volcanic geoheritage. **Data Integration, Manipulation and Visualization of Phylogenetic Trees** "Data Integration, Manipulation and Visualization of Phylogenetic Trees introduces and demonstrates data integration, manipulation and visualization of phylogenetic trees using a suite of R packages, tidytree, treeio, ggtree and ggtreeExtra. Using the most comprehensive packages for phylogenetic data integration and visualization, contains numerous examples that can be used for teaching and learning. Ideal for undergraduate readers and researchers with a working knowledge of R and ggplot2" -- **Statistics in Volcanology** Geological Society of London Statistics in Volcanology is a comprehensive guide to modern statistical methods applied in volcanology written by today's leading authorities. The volume aims to show how the statistical analysis of complex volcanological data sets, including time series, and numerical models of volcanic processes can improve our ability to forecast volcanic eruptions. Specific topics include the use of expert elicitation and Bayesian methods in eruption forecasting, statistical models of temporal and spatial patterns of volcanic activity, analysis of time series in volcano seismology, probabilistic hazard assessment, and assessment of numerical models using robust statistical methods. Also provided are comprehensive overviews of volcanic phenomena, and a full glossary of both volcanological and statistical terms. Statistics in Volcanology is essential reading for advanced undergraduates, graduate students, and research scientists interested in this multidisciplinary field. **Complexity of Seismic Time Series Measurement and Application** Elsevier Complexity of Seismic Time Series: Measurement and Application applies the tools of nonlinear dynamics to seismic analysis, allowing for the revelation of new details in micro-seismicity, new perspectives in seismic noise, and new tools for prediction of seismic events. The book summarizes both advances and applications in the field, thus meeting the needs of both fundamental and practical seismology. Merging the needs of the classical field and the very modern terms of complexity science, this book covers theory and its application to advanced nonlinear time series tools to investigate Earth's vibrations, making it a valuable tool for seismologists, hazard managers and engineers. Covers the topic of Earth's vibrations involving many different aspects of theoretical and observational seismology Identifies applications of advanced nonlinear time series tools for the characterization of these Earth's signals Merges the needs of geophysics with the applications of complexity theory Describes different methodologies to analyze problems, not only in the context of geosciences, but also those associated with different complex systems across disciplines **Introduction to Volcanic Seismology** Elsevier Volcanic seismology represents the main, and often the only, tool to forecast volcanic eruptions and to monitor the eruption process. This book describes the main types of seismic signals at volcanoes, their nature and spatial and temporal distributions at different stages of eruptive activity. Following from the success of the first edition, published in 2003, the second edition consists of 19 chapters including significant revision and five new chapters. Organized into four sections, the book begins with an introduction to the history and topic of volcanic seismology, discussing the theoretical and experimental models that were developed for the study of the origin of volcanic earthquakes. The second section is devoted to the study of volcano-tectonic earthquakes, giving the theoretical basis for their occurrence and swarms as well as case stories of volcano-tectonic activity associated with the eruptions at basaltic, andesitic, and dacitic volcanoes. There were 40 cases of volcanic eruptions at 20 volcanoes that occurred all over the world from 1910 to 2005, which are discussed. General regularities of volcano-tectonic earthquake swarms, their participation in the eruptive process, their source properties, and the hazard of strong volcano-tectonic earthquakes are also described. The third section describes the theoretical basis for the occurrence of eruption earthquakes together with the description of volcanic tremor, the seismic signals associated with pyroclastic flows, rockfalls and lahars, and volcanic explosions, long-period and very-long-period seismic signals at volcanoes, micro-earthquake swarms, and acoustic events. The final section discuss the mitigation of volcanic hazard and include the methodology of seismic monitoring of volcanic activity, the examples of forecasting of volcanic eruptions by seismic methods, and the description of seismic activity in the regions of dormant volcanoes. This book will be essential for students and practitioners of volcanic seismology to understand the essential elements of volcanic eruptions. Provides a comprehensive overview of seismic signals at different stages of volcano eruption. Discusses dozens of case histories from around the world to provide real-world applications. Illustrations accompany detailed descriptions of volcano eruptions alongside the theories involved. **PC Hacks 100 Industrial-Strength Tips & Tools** "O'Reilly Media, Inc." Presents information on getting the most out of a PC's hardware and software, covering such topics as upgrading the BIOS, configuring the hard drive, installing more RAM, improving CPU performance, and adding COM ports. **The Birnbaum-Saunders Distribution** Academic Press The Birnbaum-Saunders Distribution presents the statistical theory, methodology, and applications of the Birnbaum-Saunders distribution, a very flexible distribution for modeling different types of data (mainly lifetime data). The book describes the most recent theoretical developments of this model, including properties, transformations and related distributions, lifetime analysis, and shape analysis. It discusses methods of inference based on uncensored and censored data, goodness-of-fit tests, and random number generation algorithms for the Birnbaum-Saunders distribution, also presenting existing and future applications. Introduces inference in the Birnbaum-Saunders distribution Provides a comprehensive review of the statistical theory and methodology of the Birnbaum-Saunders distribution Discusses different applications of the Birnbaum-Saunders distribution Explains characterization and the lifetime analysis **Reduced Basis Methods for Partial Differential Equations An Introduction** Springer This book provides a basic introduction to reduced basis (RB) methods for problems involving the repeated solution of partial differential equations (PDEs) arising from engineering and applied sciences, such as PDEs depending on several parameters and PDE-constrained optimization. The book presents a general mathematical formulation of RB methods, analyzes their fundamental theoretical properties, discusses the related algorithmic and implementation aspects, and highlights their built-in algebraic and geometric structures. More specifically, the authors discuss alternative strategies for constructing accurate RB spaces using greedy algorithms and proper orthogonal decomposition techniques, investigate their approximation properties and analyze offline-online decomposition strategies aimed at the reduction of computational complexity. Furthermore, they carry out both a priori and a posteriori error analysis. The whole mathematical presentation is made more stimulating by the use of representative examples of applicative interest in the context of both linear and nonlinear PDEs. Moreover, the inclusion of many pseudocodes allows the reader to easily implement the algorithms illustrated throughout the text. The book will be ideal for upper undergraduate students and, more generally, people interested in scientific computing. All these pseudocodes are in fact implemented in a MATLAB package that is freely available at <https://github.com/redbkit> **Bayesian Data Analysis, Third Edition** CRC Press Now in its third edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems. Bayesian Data Analysis, Third Edition continues to take an applied approach to analysis using up-to-date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice. New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-avoiding priors Updated discussion of cross-validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo, variational Bayes, and expectation propagation New and revised software code The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's web page. **EnvStats An R Package for Environmental Statistics** Springer Science & Business Media This book describes EnvStats, a new comprehensive R package for environmental statistics and the successor to the S-PLUS module EnvironmentalStats for S-PLUS (first released in 1997). EnvStats and R provide an open-source set of powerful functions for performing graphical and statistical analyses of environmental data, bringing major environmental statistical methods found in the literature and regulatory guidance documents into one statistical package, along with an extensive hypertext help system that explains what these methods do, how to use these methods, and where to find them in the environmental statistics literature. EnvStats also includes numerous built-in data sets from regulatory guidance documents and the environmental statistics literature. This book shows how to use EnvStats and R to easily: \* graphically display environmental data \* plot probability distributions \* estimate distribution parameters and construct confidence intervals on the original scale for commonly used distributions such as the lognormal and gamma, as well as do this nonparametrically \* estimate and construct confidence intervals for distribution percentiles or do this nonparametrically (e.g., to compare to an environmental protection standard) \* perform and plot the results of goodness-of-fit tests \* compute optimal Box-Cox data transformations \* compute prediction limits and simultaneous prediction limits (e.g., to assess compliance at multiple sites for multiple constituents) \* perform nonparametric estimation and test for seasonal trend (even in the presence of correlated observations) \* perform power and sample size computations and create companion plots for sampling designs based on confidence intervals, hypothesis tests, prediction intervals, and tolerance intervals \* deal with non-detect (censored) data \* perform Monte Carlo simulation and probabilistic risk assessment \* reproduce specific examples in EPA guidance documents EnvStats combined with other R packages (e.g., for spatial analysis) provides the environmental scientist, statistician, researcher, and technician with tools to "get the job done!" **Monogenetic Volcanism** Geological Society of London The nature and origin of the small-scale volcanic systems, generally referred to as 'monogenetic', have enjoyed an elevated level of interest during the past decade. There has been recognition that their ostensibly simple volcano types are a window into the nature of explosive volcanism, landscape evolution and the processes of magma generation in the Earth's upper mantle. In the past few years, major conferences have offered specialized technical sessions dealing with monogenetic volcanism and there have been thematic conferences, such as the IAVCEI International Maar Conference series, which have provided a focus for discussion of volcanological and geochemical aspects of small-scale basaltic volcanism. Many new aspects of monogenetic volcanism have emerged and have clearly demonstrated that this volcanism can be very complex on a fine scale. This book is a collection of papers arising from two recent Maar Conferences (the fifth in Queretaro Mexico and the sixth in Changchun, China) and serves as a snapshot of current research on monogenetic volcanism. **Applied Econometrics with R** Springer Science & Business Media R is a language and environment for data analysis and graphics. It may be considered an implementation of S, an award-winning language initially developed at Bell Laboratories since the late 1970s. The R project was initiated by Robert Gentleman and Ross Ihaka at the University of Auckland, New Zealand, in the early 1990s, and has been developed by an international team since mid-1997. Historically, econometricians have favored other computing environments, some of which have fallen by the wayside, and also a variety of packages with canned routines. We believe that R has great potential in econometrics, both for research and for teaching. There are at least three reasons for this: (1) R is mostly platform independent and runs on Microsoft Windows, the Mac family of operating systems, and various flavors of Unix/Linux, and also on some more exotic platforms. (2) R is free software that can be downloaded and installed at no cost from a family of mirror sites around the globe, the Comprehensive R Archive Network (CRAN); hence students can easily install it on their own machines. (3) R is open-source software, so that the full source code is available and can be inspected to understand what it really does, learn from it, and modify and extend it. We also like to think that platform independence and the open-source philosophy make R an

ideal environment for reproducible econometric research. **AWI-1- Dynamic Mode Decomposition Data-Driven Modeling of Complex Systems** [SIAM](#) Data-driven dynamical systems is a burgeoning field?it connects how measurements of nonlinear dynamical systems and/or complex systems can be used with well-established methods in dynamical systems theory. This is a critically important new direction because the governing equations of many problems under consideration by practitioners in various scientific fields are not typically known. Thus, using data alone to help derive, in an optimal sense, the best dynamical system representation of a given application allows for important new insights. The recently developed dynamic mode decomposition (DMD) is an innovative tool for integrating data with dynamical systems theory. The DMD has deep connections with traditional dynamical systems theory and many recent innovations in compressed sensing and machine learning. **Dynamic Mode Decomposition: Data-Driven Modeling of Complex Systems**, the first book to address the DMD algorithm, presents a pedagogical and comprehensive approach to all aspects of DMD currently developed or under development; blends theoretical development, example codes, and applications to showcase the theory and its many innovations and uses; highlights the numerous innovations around the DMD algorithm and demonstrates its efficacy using example problems from engineering and the physical and biological sciences; and provides extensive MATLAB code, data for intuitive examples of key methods, and graphical presentations. **Critical Information Infrastructures Security 12th International Conference, CRITIS 2017, Lucca, Italy, October 8-13, 2017, Revised Selected Papers** [Springer](#) This book constitutes revised selected papers from the 12th International Conference on Critical Information Infrastructures Security, CRITIS 2017, held in Lucca, Italy, in October 2017. The 21 full papers and 4 short papers presented were carefully reviewed and selected from 63 submissions. They present innovative research and explore new challenges in the field of critical information infrastructures protection (C(I)IP) and deal with multi-disciplinary approaches to relevant C(I)IP problems. **Applied Logistic Regression** [John Wiley & Sons](#) **An Adventure in Statistics The Reality Enigma** [SAGE](#) Shortlisted for the British Psychological Society Book Award 2017 Shortlisted for the British Book Design and Production Awards 2016 Shortlisted for the Association of Learned & Professional Society Publishers Award for Innovation in Publishing 2016 *An Adventure in Statistics: The Reality Enigma* by best-selling author and award-winning teacher Andy Field offers a better way to learn statistics. It combines rock-solid statistics coverage with compelling visual story-telling to address the conceptual difficulties that students learning statistics for the first time often encounter in introductory courses - guiding students away from rote memorization and toward critical thinking and problem solving. Field masterfully weaves in a unique, action-packed story starring Zach, a character who thinks like a student, processing information, and the challenges of understanding it, in the same way a statistics novice would. Illustrated with stunning graphic novel-style art and featuring Socratic dialogue, the story captivates readers as it introduces them to concepts, eliminating potential statistics anxiety. The book assumes no previous statistics knowledge nor does it require the use of data analysis software. It covers the material you would expect for an introductory level statistics course that Field's other books (*Discovering Statistics Using IBM SPSS Statistics* and *Discovering Statistics Using R*) only touch on, but with a contemporary twist, laying down strong foundations for understanding classical and Bayesian approaches to data analysis. In doing so, it provides an unrivalled launch pad to further study, research, and inquisitiveness about the real world, equipping students with the skills to succeed in their chosen degree and which they can go on to apply in the workplace. *The Story and Main Characters The Reality Revolution In the City of Elpis*, in the year 2100, there has been a reality revolution. Prior to the revolution, Elpis citizens were unable to see their flaws and limitations, believing themselves talented and special. This led to a self-absorbed society in which hard work and the collective good were undervalued and eroded. To combat this, Professor Milton Grey invented the reality prism, a hat that allowed its wearers to see themselves as they really were - flaws and all. Faced with the truth, Elpis citizens revolted and destroyed and banned all reality prisms. The Mysterious Disappearance Zach and Alice are born soon after all the prisms have been destroyed. Zach, a musician who doesn't understand science, and Alice, a geneticist who is also a whiz at statistics, are in love. One night, after making a world-changing discovery, Alice suddenly disappears, leaving behind a song playing on a loop and a file with her research on it. Statistics to the Rescue! Sensing that she might be in danger, Zach follows the clues to find her, as he realizes that the key to discovering why Alice has vanished is in her research. Alas! He must learn statistics and apply what he learns in order to overcome a number of deadly challenges and find the love of his life. As Zach and his pocket watch, The Head, embark on their quest to find Alice, they meet Professor Milton Grey and Celia, battle zombies, cross a probability bridge, and encounter Jig:Saw, a mysterious corporation that might have something to do with Alice's disappearance... Author News "Eight years ago I had the idea to write a fictional story through which the student learns statistics via a shared adventure with the main character..." Read the complete article from Andy Field on writing his new book *Times Higher Education* article: "Andy Field takes statistics adventure to a new level" Stay Connected Connect with us on Facebook and share your experiences with Andy's texts, check out news, access free stuff, see photos, watch videos, learn about competitions, and much more. Video Links Go behind the scenes and learn more about the man behind the book: Watch Andy talk about why he created a statistics book using the framework of a novel and illustrations by one of the illustrators for the show, *Doctor Who*. See more videos on Andy's YouTube channel Available with Perusal—an eBook that makes it easier to prepare for class Perusal is an award-winning eBook platform featuring social annotation tools that allow students and instructors to collaboratively mark up and discuss their SAGE textbook. Backed by research and supported by technological innovations developed at Harvard University, this process of learning through collaborative annotation keeps your students engaged and makes teaching easier and more effective. Learn more. **Applied Survival Analysis Regression Modeling of Time-to-Event Data** [John Wiley & Sons](#) **THE MOST PRACTICAL, UP-TO-DATE GUIDE TO MODELLING AND ANALYZING TIME-TO-EVENT DATA—NOW IN A VALUABLE NEW EDITION** Since publication of the first edition nearly a decade ago, analyses using time-to-event methods have increase considerably in all areas of scientific inquiry mainly as a result of model-building methods available in modern statistical software packages. However, there has been minimal coverage in the available literature to9 guide researchers, practitioners, and students who wish to apply these methods to health-related areas of study. *Applied Survival Analysis, Second Edition* provides a comprehensive and up-to-date introduction to regression modeling for time-to-event data in medical, epidemiological, biostatistical, and other health-related research. This book places a unique emphasis on the practical and contemporary applications of regression modeling rather than the mathematical theory. It offers a clear and accessible presentation of modern modeling techniques supplemented with real-world examples and case studies. Key topics covered include: variable selection, identification of the scale of continuous covariates, the role of interactions in the model, assessment of fit and model assumptions, regression diagnostics, recurrent event models, frailty models, additive models, competing risk models, and missing data. Features of the Second Edition include: Expanded coverage of interactions and the covariate-adjusted survival functions The use of the Worcester Heart Attack Study as the main modeling data set for illustrating discussed concepts and techniques New discussion of variable selection with multivariable fractional polynomials Further exploration of time-varying covariates, complex with examples Additional treatment of the exponential, Weibull, and log-logistic parametric regression models Increased emphasis on interpreting and using results as well as utilizing multiple imputation methods to analyze data with missing values New examples and exercises at the end of each chapter Analyses throughout the text are performed using Stata® Version 9, and an accompanying FTP site contains the data sets used in the book. *Applied Survival Analysis, Second Edition* is an ideal book for graduate-level courses in biostatistics, statistics, and epidemiologic methods. It also serves as a valuable reference for practitioners and researchers in any health-related field or for professionals in insurance and government. **Refrigeration, Air Conditioning and Heat Pumps Energy and Environmental Issues** [MDPI](#) Refrigeration, air conditioning, and heat pumps (RACHP) have an important impact on the final energy uses of many sectors of modern society, such as residential, commercial, industrial, transport, and automotive. Moreover, RACHP also have an important environmental impact due to the working fluids that deplete the stratospheric ozone layer, which are being phased out according to the Montreal Protocol (1989). Last, but not least, high global working potential (GWP), working fluids (directly), and energy consumption (indirectly) are responsible for a non-negligible quota of greenhouse gas (GHG) emissions in the atmosphere, thus impacting climate change. **Model Reduction and Approximation Theory and Algorithms** [SIAM](#) Many physical, chemical, biomedical, and technical processes can be described by partial differential equations or dynamical systems. In spite of increasing computational capacities, many problems are of such high complexity that they are solvable only with severe simplifications, and the design of efficient numerical schemes remains a central research challenge. This book presents a tutorial introduction to recent developments in mathematical methods for model reduction and approximation of complex systems. *Model Reduction and Approximation: Theory and Algorithms* contains three parts that cover (I) sampling-based methods, such as the reduced basis method and proper orthogonal decomposition, (II) approximation of high-dimensional problems by low-rank tensor techniques, and (III) system-theoretic methods, such as balanced truncation, interpolatory methods, and the Loewner framework. It is tutorial in nature, giving an accessible introduction to state-of-the-art model reduction and approximation methods. It also covers a wide range of methods drawn from typically distinct communities (sampling based, tensor based, system-theoretic).?? This book is intended for researchers interested in model reduction and approximation, particularly graduate students and young researchers. **Applied Survival Analysis Using R** [Springer](#) *Applied Survival Analysis Using R* covers the main principles of survival analysis, gives examples of how it is applied, and teaches how to put those principles to use to analyze data using R as a vehicle. Survival data, where the primary outcome is time to a specific event, arise in many areas of biomedical research, including clinical trials, epidemiological studies, and studies of animals. Many survival methods are extensions of techniques used in linear regression and categorical data, while other aspects of this field are unique to survival data. This text employs numerous actual examples to illustrate survival curve estimation, comparison of survivals of different groups, proper accounting for censoring and truncation, model variable selection, and residual analysis. Because explaining survival analysis requires more advanced mathematics than many other statistical topics, this book is organized with basic concepts and most frequently used procedures covered in earlier chapters, with more advanced topics near the end and in the appendices. A background in basic linear regression and categorical data analysis, as well as a basic knowledge of calculus and the R system, will help the reader to fully appreciate the information presented. Examples are simple and straightforward while still illustrating key points, shedding light on the application of survival analysis in a way that is useful for graduate students, researchers, and practitioners in biostatistics. **2018 IEEE International Workshop on Metrology for the Sea Learning to Measure Sea Health Parameters (MetroSea)** The Sea is the medium that allowed people to travel from one continent to another using vessels and even today despite the use of aircraft It has been acting also as a great reservoir and source of foods for all living beings However, for many generations it served as a landfill for depositing conventional and nuclear wastes, especially in its deep seabeds and there is a race to exploit minerals and resources, different from foods, encompassed in it Its heath is a very challenge for the survival of all humanity since it is one the most important environmental components targeted by the global warming Tsunami and El Ni o are consequences and indicators of bad development As everyone may know, measuring is a step that allows major knowledge of a phenomenon or an asset That is why METROSEA will serve as a forum for presenting recent advances in the field of measurement and instrumentation to be applied for the increasing of our knowledge for protecting and preserving the Sea **The Measure of Madness: Citadel Press** Enter the "fascinating" and frightening world of modern forensic psychology as experienced by one of the most respected practitioners in the field today (Robert K. Tanenbaum, *New York Times*-bestselling author). At the heart of countless crimes lie the mysteries of the human mind. In this eye-opening book, Dr. Cheryl Paradis draws back the curtain on the fascinating world of forensic psychology, and revisits the most notorious and puzzling cases she has handled in her multifaceted career. Her riveting, sometimes shocking stories reveal the crucial and often surprising role forensic psychology plays in the pursuit of justice—in which the accused may truly believe their own bizarre lies, creating a world that pushes them into committing horrific, violent crimes. Join Dr. Paradis in a stark concrete cell with the indicted as she takes on the daunting task of mapping the suspect's madness or exposing it as fakery. Take a front-row seat in a tense, packed courtroom, where her testimony can determine an individual's fate—or if justice will be truly served. The criminal thought process has never been so intimately revealed—or so darkly compelling—as in this "excellent and entertaining" journey into the darkest corners of the human mind (Booklist). **Distributed Power Generation Scheduling, Modelling and Expansion Planning** [MDPI](#) Distributed generation is becoming more important in electrical power systems due to the decentralization of energy production. Within this new paradigm, new approaches for the operation and planning of distributed power generation are yet to be explored. This book deals with distributed energy resources, such as renewable-based distributed generators and energy storage units, among others, considering their operation, scheduling, and planning. Moreover, other interesting aspects such as demand response, electric vehicles, aggregators, and microgrid are also analyzed. All these aspects constitute a new paradigm that is explored in this Special Issue. **Heat Transfer in Energy Conversion Systems** [MDPI](#) In recent years, the scientific community's interest towards efficient energy conversion systems has significantly increased. One of the reasons is certainly related to the change in the temperature of the planet, which appears to have increased by 0.76 °C with respect to pre-industrial levels, according to the Intergovernmental Panel on Climate Change (IPCC), and this trend has not yet been stopped. The European Union considers it vital to prevent global warming from exceeding 2 °C with respect to pre-industrial levels, since this phenomenon has been proven to result in irreversible and potentially catastrophic changes. These climate changes are mainly caused by the emissions of greenhouse gasses related to human activities, and can be drastically reduced by employing energy systems, for both heating and cooling of buildings and for power production, characterized by high efficiency levels and/or based on renewable energy sources. This Special Issue, published in the *Journal Energies*, includes 12 contributions from across the world, including a wide range of applications, such as HT-PEMFC, district heating systems, a thermoelectric generator for industrial waste, artificial ground freezing, nanofluids, and others. **Smart Cities and Positive Energy Districts** [MDPI](#) AG Since their creation eight years ago, the EERA Joint Programmes and their participating institutions have accumulated important knowledge on specific topics of the programmes they carried out. This includes Smart Cities and Positive Energy Districts, which are not only crucial topics tackled by EERA Joint Programme in the Smart Cities Workplan, but also in H2020 as well as Horizon Europe or national calls, focusing on innovative solutions based on interdisciplinary approaches, which are needed to face the highly complex challenges in coming years, from sustainable urban development to emergencies in cities due to the COVID-19 pandemic. The foreword of EERA JP in SC

Special Issue 12018 highlighted the aim of the Special Issues series, which was, and still is, to support the growth of research networks in the EC framework. According to this, our ambition is to publish the most promising research and innovation projects which EERA JPonSC partners, and others, set up in the framework of H2020 Programme, to drive the attention to the fact that EERA JP on SC is one of the strong voices in research in Europe, capable of highlighting and integrating different solutions and points of view. **Advances in DUNE Proceedings of the DUNE User Meeting, Held in October 6th-8th 2010 in Stuttgart, Germany** Springer Science & Business Media DUNE, the Distributed and Unified Numerics Environment, is an open-source modular toolbox for solving partial differential equations with grid-based methods. This book covers recent advances in the development and usage of DUNE. It consists of a collection of 13 articles which mainly evolved from talks given at the First DUNE User Meeting in Stuttgart, Germany, 6.-8.10.2010. The articles nicely illustrate the advanced capabilities and the strong versatility of the DUNE framework. The first part presents extensions of the DUNE core modules, including the construction of local finite element spaces, a discretization toolbox, and two meta-grids, as well as a discussion of performance pitfalls. The second part introduces several external DUNE modules dealing with, e.g., reduced basis methods, unfitted discontinuous Galerkin methods, optimal control problems, and porous media applications. Specific methods and applications are subject of the third part, ranging from two-phase flow in porous media over the implementation of hybrid discontinuous Galerkin and heterogeneous multi-scale methods up to the coupling of DUNE with an existing finite element package. **Tropical Plant Science** Longman Scientific and Technical **Palaeomagnetism Principles and Applications in Geology, Geophysics and Archaeology** Springer Science & Business Media Palaeomagnetism and archaeomagnetism are fascinating specialized studies because they are applicable to such a wide range of problems in geology, archaeology and geophysics. They can also be undertaken cheaply, when compared with most other geophysical techniques, and, at first sight, simply. In fact, real comprehension of the magnetic processes that have occurred in rocks and other types of material over several thousands or many millions of years is still extremely difficult to assess and measure. On this basis, this book cannot explain all such features, nor can it attempt to cover all the actual and potential applications of the method. All that can be attempted is to give an impression of the ways in which such techniques can be used in a wide variety of fields, and how these techniques are usually applied. The magnetization of rocks is, in fact, one of the earliest of the true sciences, but we are still not in a position to answer many of the problems posed. Consequently some of the examples given of applications are, essentially, state-of-the-art comments, rather than being a review as such. The changing position of the geomagnetic poles with time is still not adequately defined, for example, and some of the more recent conventional views are given, although the emphasis is placed on more subjective, probably more controversial, evaluations. **R Markdown The Definitive Guide** CRC Press R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and ioslides/Slidy/Beamer/PowerPoint presentations Extensions and applications: Dashboards, Tufte handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Grolemund is the co-author of R for Data Science and author of Hands-On Programming with R. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse. **Amnesty International Report 2008 The State of the World's Human Rights** Amnesty International **British Section** This annual report documents human rights abuses by governments and armed opposition groups in 150 countries across the world. It provides an invaluable reference guide to international human rights developments. **bookdown Authoring Books and Technical Documents with R Markdown** CRC Press bookdown: Authoring Books and Technical Documents with R Markdown presents a much easier way to write books and technical publications than traditional tools such as LaTeX and Word. The bookdown package inherits the simplicity of syntax and flexibility for data analysis from R Markdown, and extends R Markdown for technical writing, so that you can make better use of document elements such as figures, tables, equations, theorems, citations, and references. Similar to LaTeX, you can number and cross-reference these elements with bookdown. Your document can even include live examples so readers can interact with them while reading the book. The book can be rendered to multiple output formats, including LaTeX/PDF, HTML, EPUB, and Word, thus making it easy to put your documents online. The style and theme of these output formats can be customized. We used books and R primarily for examples in this book, but bookdown is not only for books or R. Most features introduced in this book also apply to other types of publications: journal papers, reports, dissertations, course handouts, study notes, and even novels. You do not have to use R, either. Other choices of computing languages include Python, C, C++, SQL, Bash, Stan, JavaScript, and so on, although R is best supported. You can also leave out computing, for example, to write a fiction. This book itself is an example of publishing with bookdown and R Markdown, and its source is fully available on GitHub. **Fast Simulation of Electro-Thermal MEMS Efficient Dynamic Compact Models** Springer Science & Business Media This book provides the reader with a complete methodology and software environment for creating efficient dynamic compact models for electro-thermal MEMS devices. It supplies the basic knowledge and understanding for using model order reduction at the engineering level. This tutorial is written for MEMS engineers and is enriched with many case studies which equip readers with the know-how to facilitate the simulation of a specific problem. **Open Data and Models for Energy and Environment** Mdpi AG This Special Issue aims at providing recent advancements on open data and models. Energy and environment are the fields of application. For all the aforementioned reasons, we encourage researchers and professionals to share their original works. Topics of primary interest include, but are not limited to: Open data and models for energy sustainability; Open data science and environment applications; Open science and open governance for Sustainable Development Goals; Key performance indicators of data-aware energy modelling, planning and policy; Energy, water and sustainability database for building, district and regional systems; and Best practices and case studies. **Uncertain Power The Struggle for a National Energy Policy** Elsevier Uncertain Power: The Struggle for a National Energy Policy discusses several issues pertaining to the energy situation in the U.S., such as the public, the government, and the risks. The opening chapter discusses a delicate balance among the public, experts, and government. Chapter 2 tackles the failure of consensus on energy, and Chapter 3 deals with energy policy and democratic theory. The fourth chapter reviews the neglect of social risk assessment; the fifth chapter discusses valuing of human life. Chapter 6 tackles the media coverage of complex technological issues, and Chapter 7 covers the governance of nuclear power. The eighth chapter covers the national energy policy from state and local perspectives, while the ninth chapter reviews selling saved energy, considered as a new role for the utilities. Chapter 10 discusses energy and security, and Chapter 11 tackles history as a guide to the future. The last chapter covers the political geology of the energy problems. Readers who concern themselves regarding several factors that affect energy source, supply, and distribution along with its socio-economic implication will find this book a great source of insight regarding the issue. **Nudes** Fiction. Women's Studies. Short Stories. Beginning with a story of an ex sex-worker drifting through a small rural town in the south, and ending with a young woman's wedding night, who learns from her new husband what it takes to kill a man, Nash writes across the complications of working class women, rendering their desires with visceral prose and psychologically dissecting the fundamental root that threads her work: craving and the conflicts within. **The Hundred-page Machine Learning Book** Provides a practical guide to get started and execute on machine learning within a few days without necessarily knowing much about machine learning. The first five chapters are enough to get you started and the next few chapters provide you a good feel of more advanced topics to pursue. **Tacky Love Letters to the Worst Culture We Have to Offer** Vintage An irreverent and charming collection of deeply personal essays about the joys of low pop culture and bad taste, exploring coming of age in the 2000s in the age of Hot Topic, Creed, and frosted lip gloss—from the James Beard Award-nominated writer of the Catapult column "Store-Bought Is Fine" Tacky is about the power of pop culture—like any art—to imprint itself on our lives and shape our experiences, no matter one's commitment to "good" taste. These fourteen essays are a nostalgia-soaked antidote to the millennial generation's obsession with irony, putting the aesthetics we hate to love—snakeskin pants, Sex and the City, Cheesecake Factory's gargantuan menu—into kinder and sharper perspective. Each essay revolves around a different maligned (and yet, Rax would argue, vital) cultural artifact, providing thoughtful, even romantic meditations on desire, love, and the power of nostalgia. An essay about the gym-tan-laundry exuberance of Jersey Shore morphs into an excavation of grief over the death of her father; in "You Wanna Be On Top," Rax writes about friendship and early aughts girlhood; in another, Guy Fieri helps her heal from an abusive relationship. The result is a collection that captures the personal and generational experience of finding joy in caring just a little too much with clarity, heartfelt honesty, and Rax King's trademark humor. A VINTAGE ORIGINAL