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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).

This book offers the most up to the minute snapshot of scholarship on queer/gay historiographies in a number of geographical regions in western Europe, Asia and the US. It features the work of the most established scholars in the field of the history of same-sex desire and promises to take the study of same-sex relations in the early modern

period in radical new directions.

Design and manufacturing is the essential element in any product development lifecycle. Industry vendors and users have been seeking a common language to be used for the entire product development lifecycle that can describe design, manufacturing and other data pertaining to the product. Many solutions were proposed, the most successful being the Stadndard for Exchange of Product model (STEP). STEP provides a mechanism that is capable of describing product data, independent from any particular system. The nature of this description makes it suitable not only for neutral file exchange, but also as a basis for implementing, sharing and archiving product databases. ISO 10303-AP203 is the first and perhaps the most successful AP developed to exchange design data between different CAD systems. Going from geometric data (as in AP203) to features (as in AP224) represents an important step towards having the right type of data in a STEP-based CAD/CAM system. Of particular significance is the publication of STEP-NC, as an extension of STEP to NC, utilising feature-based concepts for CNC machining purposes. The aim of this book is to provide a snapshot of the recent research outcomes and implementation cases in the field of design and manufacturing where STEP is used as the primary data representation protocol. The 20 chapters are contributed by authors from most of the top research teams in the world. These research teams are based in national research institutes, industries as well as universities.

When a new, chatty, young couple and their two daughters move in next door, Ove's well-ordered, solitary world turns upside down.

'What is a self and how can a self come out of inanimate matter?' This is the riddle that drove Douglas Hofstadter to write this extraordinary book. In order to impart his original and personal view on the core mystery of human existence - our intangible sensation of 'I'-ness - Hofstadter defines the playful yet seemingly paradoxical notion of 'strange loop', and explicates this idea using analogies from many disciplines.

A guide to the features of Samba-3 provides step-by-step installation instructions on integrating Samba into a Windows or UNIX environment.

Based on interviews conducted during the war with those who fled bombing as well as subsequent research and analysis, this challenges the report of allied commanders that they took every feasible step to avoid civilian death and injury. It also examines Iraqi attacks on Israel and Saudi Arabia.

This book presents operational and practical issues of automotive mechatronics with special emphasis on the heterogeneous automotive vehicle systems approach, and is intended as a graduate text as well as a reference for scientists and engineers involved in the design of automotive mechatronic control systems. As the complexity of automotive vehicles increases, so does the dearth of high competence, multi-disciplined automotive scientists and engineers. This book provides a discussion into the type of mechatronic control systems found in modern vehicles and the skills required by automotive scientists and engineers working in this environment. Divided into two volumes and five parts, Automotive Mechatronics aims at improving automotive mechatronics education and emphasises the training of students' experimental hands-on abilities, stimulating and

promoting experience among high education institutes and produce more automotive mechatronics and automation engineers. The main subject that are treated are: VOLUME I: RBW or XBW unibody or chassis-motion mechatronic control hypersystems; DBW AWD propulsion mechatronic control systems; BBW AWB dispulsion mechatronic control systems; VOLUME II: SBW AWS diversion mechatronic control systems; ABW AWA suspension mechatronic control systems. This volume was developed for undergraduate and postgraduate students as well as for professionals involved in all disciplines related to the design or research and development of automotive vehicle dynamics, powertrains, brakes, steering, and shock absorbers (dampers). Basic knowledge of college mathematics, college physics, and knowledge of the functionality of automotive vehicle basic propulsion, dispulsion, conversion and suspension systems is required.

Behavior Trees (BTs) provide a way to structure the behavior of an artificial agent such as a robot or a non-player character in a computer game. Traditional design methods, such as finite state machines, are known to produce brittle behaviors when complexity increases, making it very hard to add features without breaking existing functionality. BTs were created to address this very problem, and enables the creation of systems that are both modular and reactive. Behavior Trees in Robotics and AI: An Introduction provides a broad introduction as well as an in-depth exploration of the topic, and is the first comprehensive book on the use of BTs. This book introduces the subject of BTs from simple topics, such as semantics and design principles, to complex topics, such as learning and task planning. For each topic, the authors provide a set of examples, ranging from simple illustrations to realistic complex behaviors, to enable the reader to successfully combine theory with practice. Starting with an introduction to BTs, the book then describes how BTs relate to, and in many cases, generalize earlier switching structures, or control architectures. These ideas are then used as a foundation for a set of efficient and easy to use design principles. The book then presents a set of important extensions and provides a set of tools for formally analyzing these extensions using a state space formulation of BTs. With the new analysis tools, the book then formalizes the descriptions of how BTs generalize earlier approaches and shows how BTs can be automatically generated using planning and learning. The final part of the book provides an extended set of tools to capture the behavior of Stochastic BTs, where the outcomes of actions are described by probabilities. These tools enable the computation of both success probabilities and time to completion. This book targets a broad audience, including both students and professionals interested in modeling complex behaviors for robots, game characters, or other AI agents. Readers can choose at which depth and pace they want to learn the subject, depending on their needs and background.

A Clear Outline of Current Methods for Designing and Implementing Automotive Systems Highlighting requirements, technologies, and business models, the Automotive Embedded Systems Handbook provides a comprehensive overview of existing and future automotive electronic systems. It presents state-of-the-art methodological and technical solutions in the areas of in-vehicle architectures, multipartner development processes, software engineering methods, embedd-

ed communications, and safety and dependability assessment. Divided into four parts, the book begins with an introduction to the design constraints of automotive-embedded systems. It also examines AUTOSAR as the emerging de facto standard and looks at how key technologies, such as sensors and wireless networks, will facilitate the conception of partially and fully autonomous vehicles. The next section focuses on networks and protocols, including CAN, LIN, FlexRay, and TTCAN. The third part explores the design processes of electronic embedded systems, along with new design methodologies, such as the virtual platform. The final section presents validation and verification techniques relating to safety issues. Providing domain-specific solutions to various technical challenges, this handbook serves as a reliable, complete, and well-documented source of information on automotive embedded systems.

The series serves to propagate investigations into language usage, especially with respect to computational support. This includes all forms of text handling activity, not only interlingual translations, but also conversions carried out in response to different communicative tasks. Among the major topics are problems of text transfer and the interplay between human and machine activities.

?A thought-provoking and invaluable book for anyone who cares about risk communication and management in the 21st century?Anna Jung, Director General, European Food Information Council?Professor Ragnar L?fstedt has once again produced a most interesting book on risk management and trust, well-based on theory and built on empirical findings?Mikael Karlsson, President, Swedish Society for Nature Conservation?Highlights the difficult balancing task facing risk regulators. Regulatory inaction against real risks can undermine public trust. However, exaggerated responses to risks can also jeopardize regulators? credibility. The diverse international case studies developed by Ragnar L?fstedt provide guidance for how regulators can navigate these and other frequently competing concerns?W. Kip Viscusi, Cogan Professor of Law and Economics, Harvard University, USA?In democracies, government policies cannot succeed without public acceptance. Yet complex risk management requires technical expertise. How to reconcile these competing needs? Ragnar L?fstedt provocatively challenges recent research claiming that risk managers must engender public trust via deliberative dialogue. He uses four cases studies to argue that the reasons for distrust vary and demand different responses; that in some cases trust can flow from technical competence without public deliberation; and that in others public deliberation can actually aggravate distrust. Trust me: L?fstedt?s book will add spice to the debate over risk, experts, the public and trust?Jonathan B. Wiener, Perkins Professor of Law and Environmental Policy, Duke University, USAWe live in ?post-trust? societies, in which public confidence in governments and corporations over health, food and environmental risk is eroding rapidly. Good risk communication can help companies, governments and institutions minimize disputes, resolve issues and anticipate problems. Without such communication, the best policies can become derailed and trust can be lost. Most policy-makers still use outdated methods to communicate policies and achieve their objectives - methods developed before public trust in industry and government was affected by health

scares such as BSE, genetically modified organisms and dioxins in Belgian chicken. This book provides effective methods for managing and communicating risk effectively in contemporary societies.

The classic work that revolutionized the way business is conducted across cultures around the world.

The first three trimesters (and the fourth—those blurry newborn days) are for the baby, but the Fifth Trimester is when the working mom is born. A funny, tells-it-like-it-is guide for new mothers coping with the demands of returning to the real world after giving birth, The Fifth Trimester is packed with honest, funny, and comforting advice from 800 moms, including: •The boss-approved way to ask for flextime (and more money!) •How to know if it's more than "just the baby blues" •How to pump breastmilk on an airplane (or, if you must, in a bathroom) •What military science knows about working through sleep deprivation •Your new sixty-second get-out-of-the-house beauty routine •How to turn your commute into a mini–therapy session •Your daycare tour or nanny interview, totally decoded

The present catalog provides a compilation of all supra- and (infra-) specific taxa of extant and fossil Valvatidae (Ectobranchia), a group of freshwater operculate snails (Gastropoda, Heterobranchia). Taxa initially described in this family and bsequently classified in other families (in particular Hydrobiidae and Planorbidae, but among others also larval shells of trichopteran insects) as well as names due to errors or misspellings are likewise included. For each taxon the full original reference and the ype locality (and type horizon in fossils) is provided. Remarks on nomenclatorical problems and possible solutions are added if necessary. As a novelty the extensive reference list is as far as possible directly linked to the internet source (digital view or pdf-download) of the respective papers to facilitate future taxonomic research.

The second volume covers the first two and a half thousand years of recorded history, from the start of the Bronze Age 5,000 years ago to the beginnings of the Iron Age. Written by a team of over sixty specialists, this volume includes a comprehensive bibliography and a detailed index.

Some basic knowledge of electronics is assumed, but the essential features of RF are fully described, including the important topic of receiver dynamic which is often overlooked in basic textbooks. The theory and circuit descriptions are geared towards genuine design applications rather than the oversimiplifications and skeleton circuits of many college texts. During his career, the late Joe Carr was one of the world's leading writers on electronics and radio, and an authority on the design and use of RF systems. Whether you are looking for a complete self-study course in RF technology, or a concise reference text to dip into, this book has the solution. A complete course in understanding and designing RF circuits Practical design knowhow from a world-class author

There are many distinct pleasures associated with computer programming. Craftsmanship has its quiet rewards, the satisfaction that comes from building a useful object and making it work. Excitement arrives with the flash of insight that cracks a previously intractable problem. The spiritual quest for elegance can turn the hacker into an artist. There are pleasures in parsimony, in squeezing the last drop of performance out of clever algorithms and tight coding. The games, puzzles,

and challenges of problems from international programming competitions are a great way to experience these pleasures while improving your algorithmic and coding skills. This book contains over 100 problems that have appeared in previous programming contests, along with discussions of the theory and ideas necessary to attack them. Instant online grading for all of these problems is available from two WWW robot judging sites. Combining this book with a judge gives an exciting new way to challenge and improve your programming skills. This book can be used for self-study, for teaching innovative courses in algorithms and programming, and in training for international competition. The problems in this book have been selected from over 1,000 programming problems at the Universidad de Valladolid online judge. The judge has ruled on well over one million submissions from 27,000 registered users around the world to date. We have taken only the best of the best, the most fun, exciting, and interesting problems available.

Written by two of the most respected, experienced and well-known researchers and developers in the field (e.g., Kiencke worked at Bosch where he helped develop anti-breaking system and engine control; Nielsen has lead joint research projects with Scania AB, Mecel AB, Saab Automobile AB, Volvo AB, Fiat GM Powertrain AB, and DaimlerChrysler. Reflecting the trend to optimization through integrative approaches for engine, driveline and vehicle control, this valuable book enables control engineers to understand engine and vehicle models necessary for controller design and also introduces mechanical engineers to vehicle-specific signal processing and automatic control. Emphasis on measurement, comparisons

between performance and modelling, and realistic examples derive from the authors' unique industrial experience . The second edition offers new or expanded topics such as diesel-engine modelling, diagnosis and anti-jerking control, and vehicle modelling and parameter estimation. With only a few exceptions, the approaches

The study of palaeoweathering provides vital clues about pastcontinental environments, the correlation of sedimentary depositsand processes such as the rate and timing of uplift and erosion. This volume (based partly on research presented at IGCP 317Palaeoweathering Records and Palaeosurfaces) contains contributionsthat use both geochemical and physical approaches to the study ofpalaeoweathering problems. The former are particularly relevant toour understanding of past climates and climate change; the latterhave applications in the understanding of mass balance betweenrates of erosion and deposition. Palaeoweathering, Palaeosurfaces and Related ContinentalDeposits illustrates the multidisciplinary nature of the subject,the diversity of techniques and, above all, the vital contributionthe subject makes to the reconstruction of ancient continentalenvironments. This book will be of great value to sedimentologists,soil scientists and geomorphologists. If you are a member of the International Association ofSedimentologists, for purchasing details, please see:http://www.iasnet.org/publications/details.asp?code=SP27

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

A new edition of the most popular book

of project management case studies, expanded to include more than 100 cases plus a "super case" on the Iridium Project Case studies are an important part of project management education and training. This Fourth Edition of Harold Kerzner's Project Management Case Studies features a number of new cases covering value measurement in project management. Also included is the well-received "super case," which covers all aspects of project management and may be used as a capstone for a course. This new edition: Contains 100-plus case studies drawn from real companies to illustrate both successful and poor implementation of project management Represents a wide range of industries, including medical and pharmaceutical, aerospace, manufacturing, automotive, finance and banking, and telecommunications Covers cutting-edge areas of construction and international project management plus a "super case" on the Iridium Project, covering all aspects of project management Follows and supports preparation for the Project Management Professional (PMP®) Certification Exam Project Management Case Studies, Fourth Edition is a valuable resource for students, as well as practicing engineers and managers, and can be used on its own or with the new Eleventh Edition of Harold Kerzner's landmark reference, Project Management: A Systems Approach to Planning, Scheduling, and Controlling. (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)

The race is on to construct the first quantum code breaker, as the winner will hold the key to the entire Internet. From international, multibillion-dollar financial transactions to top-secret government communications, all would be vulnerable to the secret-code-breaking ability of the quantum computer. Written by a renowned quantum physicist closely involved in the U.S. government's development of quantum information science, Schrödinger's Killer App: Race to Build the World's First Quantum Computer presents an inside look at the government's quest to build a quantum computer capable of solving complex mathematical problems and hacking the public-key encryption codes used to secure the Internet. The "killer application" refers to Shor's quantum factoring algorithm, which would unveil the encrypted communications of the entire Internet if a quantum computer could be built to run the algorithm. Schrödinger's notion of quantum entanglement—and his infamous cat—is at the heart of it all. The book develops the concept of entanglement in the historical context of Einstein's 30-year battle with the physics community over the true meaning of quantum theory. It discusses the remedy to the threat posed by the quantum code breaker: quantum cryptography, which is unbreakable even by the quantum computer. The author also covers applications to other important areas, such as quantum physics simulators, synchronized clocks, quantum search engines, quantum sensors, and imaging devices. In addition, he takes readers on a philosophical journey that considers the future ramifications of quantum technologies. Interspersed with amusing and personal anecdotes, this book presents quantum computing and the closely connected foundations of quantum mechanics in an engaging manner accessible to non-specialists. Requiring no formal training in physics or advanced mathematics, it explains difficult topics, including quantum entanglement, Schrödinger's cat, Bell's inequality, and quantum computational complexity, using simple analo-

gies.

A deadly continental struggle, the Thirty Years War devastated seventeenth-century Europe, killing nearly a quarter of all Germans and laying waste to towns and countryside alike. Peter Wilson offers the first new history in a generation of a horrifying conflict that transformed the map of the modern world.

The fully updated autobiography of Tony 'A.P.' McCoy, Grand National and BBC SPORTS PERSONALITY OF THE YEAR winner and unquestionably the greatest jump jockey ever. Tony 'A.P.' McCoy is without doubt the greatest and most successful jump jockey of all time. He has collected a record 16 consecutive jump-jockey titles to date, since 1992 he has ridden more than 3,000 winners, saying 'I never stop dreaming of the day I'll reach 4,000', and in 2002 he beat Sir Gordon Richards's record of 269 winners in a season by riding 289. In April 2010, A.P. achieved his lifelong ambition when he won the Grand National at Aintree on Don't Push It. It was his 15th attempt to win the race, a victory that captured the public's imagination and further enhanced a glittering career in which he had seemingly won all there was to win. It was the missing piece in the racing jigsaw for a champion jockey who had already had famous victories in the King George VI Chase, Champion Hurdle, Champion Chase and Cheltenham Gold Cup. This powerfully honest autobiography looks at life at the very top in National Hunt racing, and includes the highs and lows of A.P. winning his second Gold Cup, in 2012 on Synchronised, fifteen years after his first, only to see the horse put down after a fall in that year's Grand National. These are the memoirs of a true champion, an icon of sport, whose astonishing achievements are unlikely to be surpassed. It is a great story of courage and modesty, pain and professional setbacks, strong family values and sporting triumphs, the good guy coming first - and staying there.