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Obama's BlackBerry Greenhaven Press, Incorporated
Data Model Patterns: A Metadata Map not only presents a conceptual model of a metadata repository but also demonstrates a true enterprise data model of the information technology industry itself. It provides a step-by-step description of the model and is organized so that different readers can benefit from different parts. It offers a view of the world being addressed by all the techniques, methods, and tools of the information processing industry (for example, object-oriented design, CASE, business process re-engineering, etc.) and presents several concepts that need to be addressed by such tools. This book is pertinent, with companies and government agencies realizing that the data they use represent a significant corporate resource recognize the need to integrate data that has traditionally only been available from disparate sources. An important component of this integration is management of the "metadata" that describe, catalogue, and provide access to the various forms of underlying business data. The "metadata repository" is essential to keep track of the various physical components of these systems and their semantics. The book is ideal for data management professionals, data modeling and design professionals, and data warehouse and database repository designers. A comprehensive work based on the Zachman Framework for information architecture—encompassing the Business Owner's, Architect's, and Designer's views, for all columns (data, activities, locations, people, timing, and motivation) Provides a step-by-step description of model and is organized so that different readers can benefit from different parts Provides a view of the world being addressed by all the techniques, methods and tools of the information processing industry (for example, object-oriented design, CASE, business process re-engineering, etc.) Presents many concepts that are not currently being addressed by such tools — and should be **Google Leaks** Tickling Keys, Inc.
'Fascinating' Financial Times Algorithms are running our society, and as the Cambridge Analytica story has revealed, we don't really know what they are up to. Our increasing reliance on technology and the internet has opened a window for mathematicians and data researchers to gaze through into our lives. Using the data they are constantly collecting about where we travel, where we shop, what we buy and what interests us, they can begin to predict our daily habits. But how reliable is this data? Without understanding what mathematics can and can't do, it is impossible to get a handle on how it is changing our lives. In this book, David Sumpter takes an algorithm-strewn journey to the dark side of mathematics. He investigates the equations that analyse us, influence us and will (maybe) become like us, answering questions such as: Who are Cambridge Analytica? And what are they doing with our data? How does Facebook build a 100-dimensional picture of your personality? Are Google algorithms racist and sexist? Why do election predictions fail so drastically? Are algorithms that are designed to find criminals making terrible mistakes? What does the future hold as we relinquish our decision-making to machines? Featuring interviews with those working at the cutting edge of algorithm research, including Alex Kogan from the Cambridge Analytica story, along with a healthy dose of mathematical self-experiment, Outnumbered will explain how mathematics and statistics work in the real world, and what we should and shouldn't worry about. A lot of people feel outnumbered by algorithms – don't be one of them.
Outnumbered ASCD
The ability to conceptualize an economic problem verbally, to formulate it as a mathematical model, and then represent the mathematics in software so that the model can be solved on a computer is a crucial skill for economists. Computational Economics contains well-known models-and some brand-new ones-designed to help students move from verbal to mathematical to computational representations in economic modeling. The authors' focus, however, is not just on solving the models, but also on developing the ability to modify them to reflect one's interest and point of view. The result is a book that enables students to be creative in developing models that are relevant to the economic problems of their times. Unlike other computational economics textbooks, this book is organized around economic topics, among them macroeconomics, microeconomics, and finance. The authors employ various software systems-including MATLAB, Mathematica, GAMS, the nonlinear programming solver in Excel, and the database systems in Access-to enable students to use the most advantageous system. The book progresses from relatively simple models to more complex ones, and includes appendices on the ins and outs of running each program. The book is intended for use by advanced undergraduates and professional economists and even, as a first exposure to computational economics, by graduate students. Organized by economic topics Progresses from simple to more complex models Includes instructions on numerous software systems Encourages customization and creativity Productive Group Work Little, Brown
An active reading experience to learn DAX Power Pivot is an embedded database that significantly improves the business intelligence (BI) reporting an analytics capabilities of Microsoft Excel (versions 2010 and above). Data analysis expressions (DAX) is the formula language of Power Pivot. Learning the DAX language is key to empower Excel users so they can take advantage of these new BI capabilities, however unfortunately simply reading a book is normally not enough for Excel users to learn the DAX language – most people will also need some practice. Learn to Write DAX is different to other books- it is written in such a way to clearly explain the concepts of Power Pivot while at the same time giving hands-on practice to deeply engage the reader and to help the new knowledge and concepts stick. The book first presents the theory, then provides worked through sample exercises demonstrating each of the concepts, and finally it provides the reader with practice exercises and answers to maximize learning retention. This is the second edition of the book Learn to Write DAX. This second edition has been updated for the Excel 2016 user interface while still providing a bridge for readers wanting to learn DAX in the Excel environment and then transfer their new DAX skills across to Power BI.
Collaborative Enterprise Architecture Princeton University Press
A Story of Big Tech Censorship and Bias and the Fight to Save Our Country The madness of Google's attempt to mold our reality into a version dictated by their corporate values has never been portrayed better than in this chilling account by Google whistleblower, Zach Vorhies. As a senior engineer at Zach watched in horror from the inside as the 2016 election of Donald Trump drove Google into a frenzy of censorship and political manipulation. The American ideal of an honest, hard-fought battle of ideas—when the contest is over, shaking hands and working together to solve problems—was replaced by a different, darker ethic alien to this country's history as wave after of censorship destroyed free speech and entire market sectors. Working with New York Times bestselling author Kent Heckenlively (Plague of Corruption), Vorhies and Heckenlively weave a tale of a tech industry once beloved by its central figure for its innovation and original thinking, turned into a terrifying " woke-church" of censorship and political intolerance. For Zach, an intuitive counter-thinker, brought up on the dystopian futures of George Orwell, Aldous Huxley, and Ray Bradbury, it was clear that Google was attempting nothing less than a seamless rewriting of the operating code of reality in which many would not be allowed to participate. Using Google's own internal search engine, Zach discovered their real "AI-Censorship" system called " Machine Learning Fairness," which he claims is a merging of critical race theory and AI that was secretly released on their users of search, news and YouTube. He collected and released 950 pages of these documents to the Department of Justice and to the public in the summer of 2019 through Project Veritas with James O'Keefe, which quickly became their most popular whistleblower story, which started a trend of big whistleblowing. From Google re-writing their news algorithms to target Trump to using human tragedy emergencies to inject permanent blacklists, Zach and Kent provide a " you are there" perspective on how Google turned to the dark side to seize power. They finish by laying out a solution to fight censorship. Read this book if you care to know how Google tries to manipulate, censor, and downrank the voice of its users.
Power Pivot and Power Bi: The Excel User's Guide to Dax, Power Query, Power Bi & Power Pivot in Excel 2010-2016 Princeton University Press
Active learning lessons for mastering DAX Data analysis expressions (DAX) is the formula language of PowerPivot and this book is written to give hands-on practice to anyone who wants to become competent at writing such formulas. Sample exercises that explain each concept are provided and followed by practice questions and answers to maximize learning and experience with DAX.
Agent-Based and Individual-Based Modeling Packt Publishing Ltd
Ever-changing business needs have prompted large companies to rethink their enterprise IT. Today, businesses must allow interaction with their customers, partners, and employees at more touch points and at a depth never thought previously. At the same time, rapid advances in information technologies, like business digitization, cloud computing, and Web 2.0, demand fundamental changes in the enterprises' management practices. These changes have a drastic effect not only on IT and business, but also on policies, processes, and people. Many companies therefore embark on enterprise-wide transformation initiatives. The role of Enterprise Architecture (EA) is to architect and supervise this transformational journey. Unfortunately, today's EA is often a ponderous and detached exercise, with most of the EA initiatives failing to create visible impact. The enterprises need an EA that is agile and responsive to business dynamics. Collaborative Enterprise Architecture provides the innovative solutions today's enterprises require, informed by real-world experiences and experts' insights. This book, in its first part, provides a systematic compendium of the current best practices in EA, analyzes current ways of doing EA, and identifies its constraints and shortcomings. In the second part, it leaves the beaten tracks of EA by introducing Lean, Agile, and Enterprise 2.0 concepts to the traditional EA methods. This blended approach to EA focuses on practical aspects, with recommendations derived from real-world experiences. A truly thought provoking and pragmatic guide to manage EA, Collaborative Enterprise Architecture effectively merges the long-term oriented top-down approach with pragmatic bottom-up thinking, and that way offers real solutions to businesses undergoing enterprise-wide change. Covers the latest emerging technologies affecting business practice, including digitization, cloud computing, agile software development, and Web 2.0 Focuses on the practical implementation of EAM rather than theory, with recommendations based on real-world case studies Addresses changing business demands and practices, including Enterprise 2.0, open source, global sourcing, and more Takes an innovative approach to EAM, merging standard top-down and pragmatic, bottom-up strategies, offering real solutions to businesses undergoing enterprise-wide changes
Super Charge Excel ASCD
"The first edition of this Code was published in January 1921. It was preapred by an American National Standards Institute (ASME) Committee on Protection of Industrial Workers with the assistance of representatives of a number of interests including manufacturers, insurance carriers, regulartory bodies, and technical societies. ... The tenth edition of the Code was approved by the A17 Standards Committee. ... This twenty-third edition of the Code contains many revisions, including the sddition of cybersecurity requirements, remote interaction operation requirements, and test enable operation requirements. In addition, many requirements have been updated, including flood protection of elevators, alternate testing of emergency braking, and door position montoring on Phase II."--Pages xi-xv.
Safety Code for Elevators and Escalators Newnes
China represents enormous opportunity for U.S. trade and investment. But good relations between the two nations continue to be strained by disagreements over such issues as human rights and copyrights.
Enhancing Student Achievement Holy Macro! Books
Educators devoted to school reform focus all too often on the isolated components of K-12 education--this is the essential premise of this powerful new book. If we are truly committed to improving our schools, the author contends, then we must focus on the interdependence of variables that affect student learning, both inside and outside the classroom. The book is divided into three distinct parts. In Part 1, Danielson introduces the Four Circles Model to define the criteria for successful school improvement: Everything educators do to help their students learn must be based on what educators want (school, district, or state goals), believe (values and principles), and know (educational research). In Part 2, the author provides a framework for improving schools--including curriculum, team planning, and policies and practices affecting students--and connects every concept to the criteria presented in Part 1. She also provides a handy rubric at the end of each chapter, both as a summary of main points and as a tool for educators to gauge the needs of their school. Part 3 offers readers guidelines on how best to implement the framework using action planning. Brimming with perceptive advice and thought-provoking arguments, this book is both a wake-up call and a roadmap to success for those determined to provide students with the best education possible. Note: This product listing is for the Adobe Acrobat (PDF) version of the book.
Transforming Brockton High School Bloomsbury Publishing
Gain useful insights from your data using popular data science tools Key FeaturesA one-stop guide to Python libraries such as pandas and NumPyComprehensive coverage

of data science operations such as data cleaning and data manipulationChoose scalable learning algorithms for your data science tasksBook Description Fully expanded and upgraded, the latest edition of Python Data Science Essentials will help you succeed in data science operations using the most common Python libraries. This book offers up-to-date insight into the core of Python, including the latest versions of the Jupyter Notebook, NumPy, pandas, and scikit-learn. The book covers detailed examples and large hybrid datasets to help you grasp essential statistical techniques for data collection, data munging and analysis, visualization, and reporting activities. You will also gain an understanding of advanced data science topics such as machine learning algorithms, distributed computing, tuning predictive models, and natural language processing. Furthermore, You'll also be introduced to deep learning and gradient boosting solutions such as XGBoost, LightGBM, and CatBoost. By the end of the book, you will have gained a complete overview of the principal machine learning algorithms, graph analysis techniques, and all the visualization and deployment instruments that make it easier to present your results to an audience of both data science experts and business users What you will learnSet up your data science toolbox on Windows, Mac, and LinuxUse the core machine learning methods offered by the scikit-learn libraryManipulate, fix, and explore data to solve data science problemsLearn advanced explorative and manipulative techniques to solve data operationsOptimize your machine learning models for optimized performanceExplore and cluster graphs, taking advantage of interconnections and links in your dataWho this book is for If you're a data science entrant, data analyst, or data engineer, this book will help you get ready to tackle real-world data science problems without wasting any time. Basic knowledge of probability/statistics and Python coding experience will assist you in understanding the concepts covered in this book.

Numerical Methods for Stochastic Computations
Princeton University Press
The@ first graduate-level textbook to focus on fundamental aspects of numerical methods for stochastic computations, this book describes the class of numerical methods based on generalized polynomial chaos (gPC). These fast, efficient, and accurate methods are an extension of the classical spectral methods of high-dimensional random spaces. Designed to simulate complex systems subject to random inputs, these methods are widely used in many areas of computer science and engineering. The book introduces polynomial approximation theory and probability theory; describes the basic theory of gPC methods through numerical examples and rigorous development; details the procedure for converting stochastic equations into deterministic ones; using both the Galerkin and collocation approaches; and discusses the distinct differences and challenges arising from high-dimensional problems. The last section is devoted to the application of gPC methods to critical areas such as inverse problems and data assimilation. Ideal for use by graduate students and researchers both in the classroom and for self-study, Numerical Methods for Stochastic Computations provides the required tools for in-depth research related to stochastic computations. The first graduate-level textbook to focus on the fundamentals of numerical methods for stochastic computations Ideal introduction for graduate courses or self-study Fast, efficient, and accurate numerical methods Polynomial approximation theory and probability theory included Basic gPC methods illustrated through examples

U.S. Policy Toward China Simon and Schuster
The essential textbook on agent-based modeling—now fully updated and expanded Agent-Based and Individual-Based Modeling has become the standard textbook on the subject for classroom use and self-instruction. Drawing on the latest version of NetLogo and fully updated with new examples, exercises, and an enhanced text for easier comprehension, this is the essential resource for anyone seeking to understand how the dynamics of biological, social, and other complex systems arise from the characteristics of the agents that make up these systems. Steven Railsback and Volker Grimm lead students stepwise through the processes of designing, programming, documenting, and doing scientific research with agent-based models, focusing on the adaptive behaviors that make these models necessary. They cover the fundamentals of modeling and model analysis, introduce key modeling concepts, and demonstrate how to implement them using NetLogo. They also address pattern-oriented modeling, an invaluable strategy for modeling real-world problems and developing theory. This accessible and authoritative book focuses on modeling as a tool for understanding real complex systems. It explains how to pose a specific question, use observations from actual systems to design models, write and test software, and more. A hands-on introduction that guides students from conceptual design to computer

implementation to analysis Filled with new examples and exercises and compatible with the latest version of NetLogo Ideal for students and researchers across the natural and social sciences Written by two leading practitioners Supported by extensive instructional materials at www.railsback-grimm-abm-book.com

Probability, Markov Chains, Queues, and Simulation
Princeton University Press
From controlling disease outbreaks to predicting heart attacks, dynamic models are increasingly crucial for understanding biological processes. Many universities are starting undergraduate programs in computational biology to introduce students to this rapidly growing field. In Dynamic Models in Biology, the first text on dynamic models specifically written for undergraduate students in the biological sciences, ecologist Stephen Ellner and mathematician John Guckenheimer teach students how to understand, build, and use dynamic models in biology. Developed from a course taught by Ellner and Guckenheimer at Cornell University, the book is organized around biological applications, with mathematics and computing developed through case studies at the molecular, cellular, and population levels. The authors cover both simple analytic models--the sort usually found in mathematical biology texts--and the complex computational models now used by both biologists and mathematicians. Linked to a Web site with computer-lab materials and exercises, Dynamic Models in Biology is a major new introduction to dynamic models for students in the biological sciences, mathematics, and engineering.

Computational Economics Elsevier
Microsoft PowerPivot is a free add-on to Excel from Microsoft that allows users to produce new kinds of reports and analyses that were simply impossible before, and this book is the first to tackle DAX formulas, the core capability of PowerPivot, from the perspective of the Excel audience. Written by the world's foremost PowerPivot blogger and practitioner, the book's concepts and approach are introduced in a step-by-step manner tailored to the learning style of Excel users everywhere. The techniques presented allow users to produce, in hours or even minutes, results that formerly would have taken entire teams weeks or months to produce. The "pattern-like" techniques and best practices contained in this book have been developed and refined over two years of onsite training with Excel users around the world, and the key lessons from those seminars costing thousands of dollars per day are now available within the pages of this easy-to-follow guide. This updated edition covers new features introduced with Office 2015.

Learn to Write DAX
Find out how matching research-based principles of collaborative learning with practical action can make all group work productive group work, with all students engaged.

Data Model Patterns: A Metadata Map
When Obama stated that if elected, he would keep his Blackberry, debate echoed through Washington and among the ranks of the Secret Service. What would it be like to have a president who could Twitter, send text messages, and navigate the web with ease? What would it be like to receive a text message from inside the Oval Office and, most importantly, what would it say? Now, for the first time, We The People are privy to our new leader's epistolary back-and-forths on his wily hand-held device. We're about to discover that his emails (and the replies, from his wife and daughters, Biden, Palen, Rush, Hannity, the new first puppy, and even Bush) are so tuned in to the language of electronic correspondence they come hilariously close to the brink of legibility. This giftable, imagined glimpse into Obama's beloved Blackberry traverses the mundane and momentous contours of the Commander in Chief's life, from security briefings to spam, basketball practice to domestic bliss, and the panic of oops-I-hit-reply-all, to, of course, the trauma of dealing with the First Mother In Law. To wit: BidenMyTime: Hey U, whatcha doin? BARACKO: M rly busy BidenMyTime: Right :(Can I lv at 4:45?

Dynamic Models in Biology
Probability, Markov Chains, Queues, and Simulation provides a modern and authoritative treatment of the mathematical processes that underlie performance modeling. The detailed explanations of mathematical derivations and numerous illustrative examples make this textbook readily accessible to graduate and advanced undergraduate students taking courses in which stochastic processes play a fundamental role. The textbook is relevant to a wide variety of fields, including computer science, engineering, operations research, statistics, and mathematics. The textbook looks at the fundamentals of probability theory, from the basic concepts

of set-based probability, through probability distributions, to bounds, limit theorems, and the laws of large numbers. Discrete and continuous-time Markov chains are analyzed from a theoretical and computational point of view. Topics include the Chapman-Kolmogorov equations; irreducibility; the potential, fundamental, and reachability matrices; random walk problems; reversibility; renewal processes; and the numerical computation of stationary and transient distributions. The M/M/1 queue and its extensions to more general birth-death processes are analyzed in detail, as are queues with phase-type arrival and service processes. The M/G/1 and G/M/1 queues are solved using embedded Markov chains; the busy period, residual service time, and priority scheduling are treated. Open and closed queueing networks are analyzed. The final part of the book addresses the mathematical basis of simulation. Each chapter of the textbook concludes with an extensive set of exercises. An instructor's solution manual, in which all exercises are completely worked out, is also available (to professors only). Numerous examples illuminate the mathematical theories Carefully detailed explanations of mathematical derivations guarantee a valuable pedagogical approach Each chapter concludes with an extensive set of exercises
Sponsor's Report

Python Data Science Essentials