Vector Basic Training A Systematic Creative Process For Building Precision Vector Artwork Voices That Matter By Glitschka Von R 1st First 2011 Paperback

Systematic TheologyIntroduction to Sports BiomechanicsFundamentals of Wireless CommunicationHow to DesignApplied Text Analysis with PythonTen Strategies of a World-Class Cybersecurity Operations CenterTake and Make ArtFlourish. Banner. Frame.Data Science for BusinessDrip Dot SwirlProgramming RustDesign: LogoMathematics for Machine LearningDiscrete Choice Methods with SimulationDigital Painting TechniquesVector Basic TrainingAdobe Illustrator Creative Cloud RevealedModeling a Character in 3DS MaxFundamentals of BiomechanicsHigh-Dimensional ProbabilityNeural NetworksData-intensive Text Processing with MapReduceVector Basic TrainingModern Statistics for Modern BiologyBuilding Machine Learning and Deep Learning Models on Google Cloud PlatformFeedback SystemsHunter's Tropical Medicine and Emerging Infectious Diseases E-BookGlobal Health Impacts of Vector-Borne DiseasesIntroduction to Information RetrievalUnderstanding and Using C PointersPrecision PhotoshopAdobe Illustrator CS6Natural Language Annotation for Machine LearningTopological Vector SpacesRecommender Systems HandbookUsing R for Introductory StatisticsAn Introduction to Neural NetworksCommunities in ActionVector Graphics and IllustrationAdvances in Self-Organizing Maps

Systematic Theology

Intended as a systematic text on topological vector spaces, this text assumes familiarity with the elements of general topology and linear algebra. Similarly, the elementary facts on Hilbert and Banach spaces are not discussed in detail here, since the book is mainly addressed to those readers who wish to go beyond the introductory level. Each of the chapters is preceded by an introduction and followed by exercises, which in turn are devoted to further results and supplements, in particular, to examples and counter-examples, and hints have been given where appropriate. This second edition has been thoroughly revised and includes a new chapter on C^* and W^* algebras.

Introduction to Sports Biomechanics

Royalty-Free Patterns Included on DVD for Your Use! Take one tablespoon of Jackson Pollack, mix in two cups of M.C. Escher, sprinkle in a pinch of William Morris, and you'll get Drip Dot Swirl. An exceptional resource for creatives who love pattern, but can't devote hundreds of hours to developing swatches, Drip Dot Swirl is an amazing library that contains 94 original vector patterns. Styles range from intricate knotwork to subtle florals to retro wallpaper to alien-inspired mazes. The patterns are equally useful for personal or professional projects. This eye-popping book and DVD feature handcrafted vector patterns which tile seamlessly. With examples from ten artists, you'll see how top designers and illustrators use the patterns in various projects. The DVD contains all 94 source files in vector EPS

format (with three color options per pattern), swatch libraries and PDF tutorials on how to use the files. Both beginners and advanced design professionals will be able to jump right in. Drip Dot Swirl explodes with unique illustrative patterns. The diverse selection to choose from will help jump-start your imagination. It's a resource that can be used again and again, for brochures, scrapbooks, illustrations, website backgrounds, textiles, crafting, altered art and more. Designers and illustrators who want to wield the power of pattern will keep this book handy.

Fundamentals of Wireless Communication

In this update to his best-selling character modeling book, professional modeler and animator Paul Steed shares a number of tips, tricks, and techniques that have made him one of the industry s most recognized 3D artists. Modeling a Character in 3ds max, Second Edition provides readers a professional-level skill set as it chronicles the creation of a single low-poly real-time character from concept to texture mapping, and gives insight into the process of creating a high-resolution character. Learn how to model with primitives; use extrusions and Booleans; mirror and reuse models; optimize the mesh; create and apply textures; loft shapes."

How to Design

This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

Applied Text Analysis with Python

New emerging diseases, new diagnostic modalities for resource-poor settings, new vaccine schedules all significant, recent developments in the fast-changing field of tropical medicine. Hunter's Tropical Medicine and Emerging Infectious Diseases, 10th Edition, keeps you up to date with everything from infectious diseases and environmental issues through poisoning and toxicology, animal injuries, and nutritional and micronutrient deficiencies that result from traveling to tropical or subtropical regions. This comprehensive resource provides authoritative clinical guidance, useful statistics, and chapters covering organs, skills, and services, as well as traditional pathogen-based content. You'll get a full understanding of how to recognize and treat these unique health issues, no matter how widespread or difficult to control. Includes important updates on malaria, leishmaniasis, tuberculosis and HIV, as well as coverage of Ebola, Zika virus, Chikungunya, and other emerging pathogens. Provides new vaccine schedules and information on implementation. Features five all-new chapters: Neglected Tropical Diseases: Public Health Control Programs and Mass Drug Administration; Health System and Health Care Delivery; Zika; Medical Entomology; and Vector Control – as well as 250 new images throughout. Presents the common characteristics and methods of transmission for each tropical disease, as well as the applicable diagnosis, treatment, control, and disease prevention techniques. Contains skills-based chapters such as dentistry, neonatal pediatrics and ICMI, and surgery in the tropics, and service-based chapters such as transfusion in resource-poor settings,

microbiology, and imaging. Discusses maladies such as delusional parasitosis that are often seen in returning travelers, including those making international adoptions, transplant patients, medical tourists, and more.

Ten Strategies of a World-Class Cybersecurity Operations Center

Rust is a new systems programming language that combines the performance and low-level control of C and C++ with memory safety and thread safety. Rust's modern, flexible types ensure your program is free of null pointer dereferences, double frees, dangling pointers, and similar bugs, all at compile time, without runtime overhead. In multi-threaded code, Rust catches data races at compile time, making concurrency much easier to use. Written by two experienced systems programmers, this book explains how Rust manages to bridge the gap between performance and safety, and how you can take advantage of it. Topics include: How Rust represents values in memory (with diagrams) Complete explanations of ownership, moves, borrows, and lifetimes Cargo, rustdoc, unit tests, and how to publish your code on crates.io, Rust's public package repository High-level features like generic code, closures, collections, and iterators that make Rust productive and flexible Concurrency in Rust: threads, mutexes, channels, and atomics, all much safer to use than in C or C++ Unsafe code, and how to preserve the integrity of ordinary code that uses it Extended examples illustrating how pieces of the language fit together

Take and Make Art

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

Flourish. Banner. Frame.

ADOBE ILLUSTRATOR CREATIVE CLOUD REVEALED offers you comprehensive coverage in all areas of Adobe Illustrator. Beginning with fundamental concepts and progressing to in-depth exploration of the software's full set of features, these step-by-step lessons offer you a guided tour of all the program's great features -

including an illustrated tutorial on "how to draw with the Pen tool" that you won't find in any other book. This new edition highlights extensive coverage of important and exciting new features, including dramatic improvements to Illustrator's built-in tracing utility and a major upgrade for creating patterns. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Data Science for Business

Ornaments and motifs add something special to creative projects, but not all creatives can devote the hundreds of hours necessary to developing them. Flourish. Banner. Frame. is an amazing library of 555 original symbols, floral motifs, border treatments, frills, banners, shields, crests, ornaments, decorative frames, placards and cartouches. Each design element has been crafted with vector precision, and you can use this artwork within the context of your own projects, whether they are personal or professional in nature. There are 10 real-life examples in the book, so you can be inspired by top designers and illustrators. This extensive volume of ornaments and motifs is easy to use for any design or illustration project: publication layouts, book covers, website backgrounds, t-shirt graphics, scrapbooks, textiles, crafts, stencils, tattoos—and everything in between. Whether you are a beginner or an advanced design professional, you'll turn to this resource again and again for years to come.

Drip Dot Swirl

Introduction to Sports Biomechanics has been developed to introduce you to the core topics covered in the first two years of your degree. It will give you a sound grounding in both the theoretical and practical aspects of the subject. Part One covers the anatomical and mechanical foundations of biomechanics and Part Two concentrates on the measuring techniques which sports biomechanists use to study the movements of the sports performer. In addition, the book is highly illustrated with line drawings and photographs which help to reinforce explanations and examples.

Programming Rust

"Vector Graphics and Illustration turns the spotlight on this instantly recognizable and popular illustrative technique. This book is a highly illustrated but practical "how to" manual that looks at the creative possibilities offered by software such as Adobe Illustrator and CorelDRAW. It makes a feature of the exemplary illustration work being created around the world, and especially in countries with an emerging graphic design scene, including Malaysia, Brazil, and India. Vector Graphics and Illustration explores the advantages of vector work. Memory-efficient, they are the preferred style for email/web applications and useful in minimal but high-impact work, such as information graphics, logos, chraracters, technical drawings, graphic novels, and graphics for clothing. This book taps into a vibrant and distinctive creative area that is under-represented outside software manuals and specialist magazines."--Publisher website.

Design: Logo

Inside this book, you will not only find hundreds of unique, custom-designed pieces of royalty-free vector illustrations from the super talented Von Glitschka, you will also find something potentially even more valuable–the hitherto undiscovered cure for designer's block. You've heard of writer's block. Well, designer's block is just as bad. Maybe even worse. And inside this book is the cure. Stuck for inspiration? Don't know what to do for that newsletter, T-shirt, ad, logo…tattoo? With access to this enormous collection of illustrations ranging from the practical to the wonderfully weird, you're sure to find a design that will kick-start your imagination and get you making again. Buy the book, download the artwork featured inside, and use the illustrations as-is or make them your own. Just take and make. Monstrous goldfish, flying clocks, three-eyed aliens, gaping garbage cans, doves wielding olive branches, tribal totems, and seriously formidable serpents are all yours for the taking. Commercial illustrator Von Glitschka has created illustrations for some of the biggest names in business including Nike, Target, Disney, Major League Baseball, Xerox, and more. Now, through this fun and funky book you can get access to hundreds of his illustrations for use in your own projects.

Mathematics for Machine Learning

Written as an introductory book to the concept design process as applied to a range of professions, this book will appeal to entertainment designers, industrial designers, graphic designers, architects, illustrators and even engineers.

Discrete Choice Methods with Simulation

This book provides an introduction to the mathematics needed to model, analyze, and design feedback systems. It is an ideal textbook for undergraduate and graduate students, and is indispensable for researchers seeking a self-contained reference on control theory. Unlike most books on the subject, Feedback Systems develops transfer functions through the exponential response of a system, and is accessible across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. They provide exercises at the end of every chapter, and an accompanying electronic solutions manual is available. Feedback Systems is a complete one-volume resource for students and researchers in mathematics, engineering, and the sciences. Covers the mathematics needed to model, analyze, and design feedback systems Serves as an introductory textbook for students and a self-contained resource for researchers Includes exercises at the end of every chapter Features an electronic solutions manual Offers techniques applicable across a range of disciplines

Digital Painting Techniques

Neural networks are a computing paradigm that is finding increasing attention among computer scientists. In this book, theoretical laws and models previously scattered in the literature are brought together into a general theory of artificial neural nets. Always with a view to biology and starting with the simplest nets, it is shown how the properties of models change when more general computing elements and net topologies are introduced. Each chapter contains examples, numerous illustrations, and a bibliography. The book is aimed at readers who seek an overview of the field or who wish to deepen their knowledge. It is suitable as a basis for university courses in neurocomputing.

Vector Basic Training

Discover the tips, tricks and techniques that really work for concept artists, matte painters and animators. Compiled by the team at 3dtotal.com, Digital Painting Techniques, Volume 1 offers digital inspiration with hands-on insight and techniques from professional digital artists. More than just a gallery book - within Digital Painting Techniques each artist has written a breakdown overview, with supporting imagery of how they made their piece of work. Beginner and intermediate digital artists will be inspired by the gallery style collection of the finest examples of digital painting from world renowned digital artists. Start your mentorship into the world of digital painting today with some of the greatest digital artists in the world and delve into professional digital painting techiques, such as speed painting, custom brush creation and matte painting. Develop your digital painting skills beyond the variety of free online digital painting tutorials and apply the most up to date techniques to your digital canvas with Digital Painting Techniques for Animators.

Adobe Illustrator Creative Cloud Revealed

Pathogens transmitted among humans, animals, or plants by insects and arthropod vectors have been responsible for significant morbidity and mortality throughout recorded history. Such vector-borne diseases â€" including malaria, dengue, yellow fever, and plague â€" together accounted for more human disease and death in the 17th through early 20th centuries than all other causes combined. Over the past three decades, previously controlled vector-borne diseases have resurged or reemerged in new geographic locations, and several newly identified pathogens and vectors have triggered disease outbreaks in plants and animals, including humans. Domestic and international capabilities to detect, identify, and effectively respond to vector-borne diseases are limited. Few vaccines have been developed against vector-borne pathogens. At the same time, drug resistance has developed in vector-borne pathogens while their vectors are increasingly resistant to insecticide controls. Furthermore, the ranks of scientists trained to conduct research in key fields including medical entomology, vector ecology, and tropical medicine have dwindled, threatening prospects for addressing vector-borne diseases now and in the future. In June 2007, as these circumstances became alarmingly apparent, the Forum on Microbial Threats hosted a workshop to explore the dynamic relationships among host, pathogen(s), vector(s), and ecosystems

that characterize vector-borne diseases. Revisiting this topic in September 2014, the Forum organized a workshop to examine trends and patterns in the incidence and prevalence of vector-borne diseases in an increasingly interconnected and ecologically disturbed world, as well as recent developments to meet these dynamic threats. Participants examined the emergence and global movement of vector-borne diseases, research priorities for understanding their biology and ecology, and global preparedness for and progress toward their prevention, control, and mitigation. This report summarizes the presentations and discussions from the workshop.

Modeling a Character in 3DS Max

Our world is being revolutionized by data-driven methods: access to large amounts of data has generated new insights and opened exciting new opportunities in commerce, science, and computing applications. Processing the enormous quantities of data necessary for these advances requires large clusters, making distributed computing paradigms more crucial than ever. MapReduce is a programming model for expressing distributed computations on massive datasets and an execution framework for large-scale data processing on clusters of commodity servers. The programming model provides an easy-to-understand abstraction for designing scalable algorithms, while the execution framework transparently handles many system-level details, ranging from scheduling to synchronization to fault tolerance. This book focuses on MapReduce algorithm design, with an emphasis on text processing algorithms common in natural language processing, information retrieval, and machine learning. We introduce the notion of MapReduce design patterns, which represent general reusable solutions to commonly occurring problems across a variety of problem domains. This book not only intends to help the reader "think in MapReduce", but also discusses limitations of the programming model as well. This volume is a printed version of a work that appears in the Synthesis Digital Library of Engineering and Computer Science. Synthesis Lectures provide concise, original presentations of important research and development topics, published quickly, in digital and print formats. For more information visit www.morganclaypool.com

Fundamentals of Biomechanics

Create your own natural language training corpus for machine learning. Whether you're working with English, Chinese, or any other natural language, this hands-on book guides you through a proven annotation development cycle—the process of adding metadata to your training corpus to help ML algorithms work more efficiently. You don't need any programming or linguistics experience to get started. Using detailed examples at every step, you'll learn how the MATTER Annotation Development Process helps you Model, Annotate, Train, Test, Evaluate, and Revise your training corpus. You also get a complete walkthrough of a real-world annotation project. Define a clear annotation goal before collecting your dataset (corpus) Learn tools for analyzing the linguistic content of your corpus Build a model and specification for your annotation project Examine the different annotation formats, from basic XML to the Linguistic Annotation Framework Create a gold standard corpus that can be used to train and test ML algorithms Select the ML algorithms that will process your annotated data Evaluate the test results and

revise your annotation task Learn how to use lightweight software for annotating texts and adjudicating the annotations This book is a perfect companion to O'Reilly's Natural Language Processing with Python.

High-Dimensional Probability

Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org.

Neural Networks

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

Data-intensive Text Processing with MapReduce

Written by renowned data science experts Foster Provost and Tom Fawcett, Data Science for Business introduces the fundamental principles of data science, and walks you through the "data-analytic thinking" necessary for extracting useful knowledge and business value from the data you collect. This guide also helps you understand the many data-mining techniques in use today. Based on an MBA course Provost has taught at New York University over the past ten years, Data Science for Business provides examples of real-world business problems to illustrate these principles. You'll not only learn how to improve communication between business stakeholders and data scientists, but also how participate intelligently in your company's data science projects. You'll also discover how to think data-analytically, and fully appreciate how data science methods can support business decision-making. Understand how data science fits in your organization—and how you can use it for competitive advantage Treat data as a business asset that requires careful investment if you're to gain real value

Approach business problems data-analytically, using the data-mining process to gather good data in the most appropriate way Learn general concepts for actually extracting knowledge from data Apply data science principles when interviewing data science job candidates

Vector Basic Training

A far-reaching course in practical advanced statistics for biologists using R/Bioconductor, data exploration, and simulation.

Modern Statistics for Modern Biology

The Essentials of Photoshop for Creative Professionals There are plenty of books on Photoshop for photographers; for everyone else, there's Precision Photoshop: Creating Powerful Visual Effects. In clear, conversational language using extensive images and screenshots, this book gives you in-depth guidance on learning how to use Photoshop. The author shares her practical knowledge and insider tips gleaned from years working on visual effects in the entertainment business. Requiring no prior experience, the book first offers a step-by-step beginner's tutorial on the main features of Photoshop, with the tutorial files available on the book's CRC Press web page. It next shows you how to manage various assets, such as text, 3D, or HDRI files, and provides solutions to the most common questions asked by new Photoshop users. The author explains how to work with camera raw files and describes how to unlock your artistic potential through Photoshop's powerful tools. She also covers more advanced tutorials involving higher concepts and specific source images, such as creating panoramas, high-contrast images, 3D effects, and motion. Illustrating key techniques with examples of production-quality work, this book delves deep into aspects most important to creative professionals. Whether you're a beginner or more experienced user, you will find precise instruction on critical elements of the workflow.

Building Machine Learning and Deep Learning Models on Google Cloud Platform

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Feedback Systems

A guide to Adobe Illustrator CS6 covers such topics as creating and managing documents, drawing, coloring artwork, working with typography and images, and preparing graphics for the Web.

Hunter's Tropical Medicine and Emerging Infectious Diseases E-Book

Fundamentals of Biomechanics introduces the exciting world of how human movement is created and how it can be improved. Teachers, coaches and physical therapists all use biomechanics to help people improve movement and decrease the risk of injury. The book presents a comprehensive review of the major concepts of biomechanics and summarizes them in nine principles of biomechanics. Fundamentals of Biomechanics concludes by showing how these principles can be used by movement professionals to improve human movement. Specific case studies are presented in physical education, coaching, strength and conditioning, and sports medicine.

Global Health Impacts of Vector-Borne Diseases

This book constitutes the refereed proceedings of the 7th International Workshop on Advances in Self-Organizing Maps, WSOM 2009, held in St. Augustine, Florida, in June 2009. The 41 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers deal with topics in the use of SOM in many areas of social sciences, economics, computational biology, engineering, time series analysis, data visualization and theoretical computer science.

Introduction to Information Retrieval

Understanding and Using C Pointers

Though mathematical ideas underpin the study of neural networks, the author presents the fundamentals without the full mathematical apparatus. All aspects of the field are tackled, including artificial neurons as models of their real counterparts; the geometry of network action in pattern space; gradient descent methods, including back-propagation; associative memory and Hopfield nets; and self-organization and feature maps. The traditionally difficult topic of adaptive resonance theory is clarified within a hierarchical description of its operation. The book also includes several real-world examples to provide a concrete focus. This should enhance its appeal to those involved in the design, construction and management of networks in commercial environments and who wish to improve their understanding of network simulator packages. As a comprehensive and highly accessible introduction to one of the most important topics in cognitive and computer science, this volume should interest a wide range of readers, both students and professionals, in cognitive science, psychology, computer science and electrical engineering.

Precision Photoshop

High-dimensional probability offers insight into the behavior of random vectors, random matrices, random subspaces, and objects used to quantify uncertainty in high dimensions. Drawing on ideas from probability, analysis, and geometry, it lends itself to applications in mathematics, statistics, theoretical computer science, signal processing, optimization, and more. It is the first to integrate theory, key tools, and modern applications of high-dimensional probability. Concentration inequalities form the core, and it covers both classical results such as Hoeffding's and Chernoff's inequalities and modern developments such as the matrix Bernstein's inequality. It then introduces the powerful methods based on stochastic processes, including such tools as Slepian's, Sudakov's, and Dudley's inequalities, as well as generic chaining and bounds based on VC dimension. A broad range of illustrations is embedded throughout, including classical and modern results for covariance estimation, clustering, networks, semidefinite programming, coding, dimension reduction, matrix completion, machine learning, compressed sensing, and sparse regression.

Adobe Illustrator CS6

The second edition of a bestselling textbook, Using R for Introductory Statistics guides students through the basics of R, helping them overcome the sometimes steep learning curve. The author does this by breaking the material down into small, task-oriented steps. The second edition maintains the features that made the first edition so popular, while updating data, examples, and changes to R in line with the current version. See What's New in the Second Edition: Increased emphasis on more idiomatic R provides a grounding in the functionality of base R. Discussions of the use of RStudio helps new R users avoid as many pitfalls as possible. Use of knitr package makes code easier to read and therefore easier to reason about. Additional information on computer-intensive approaches motivates the traditional approach. Updated examples and data make the information current and topical. The book has an accompanying package, UsingR, available from CRAN, R's repository of user-contributed packages. The package contains the data sets mentioned in the text (data(package="UsingR")), answers to selected problems (answers()), a few demonstrations (demo()), the errata (errata()), and sample code from the text. The topics of this text line up closely with traditional teaching progression; however, the book also highlights computer-intensive approaches to motivate the more traditional approach. The authors emphasize realistic data and examples and rely on visualization techniques to gather insight. They introduce statistics and R seamlessly, giving students the tools they need to use R and the information they need to navigate the sometimes complex world of statistical computing.

Natural Language Annotation for Machine Learning

Take a systematic approach to understanding the fundamentals of machine learning and deep learning from the ground up and how they are applied in practice. You will use this comprehensive guide for building and deploying learning models to address complex use cases while leveraging the computational

resources of Google Cloud Platform. Author Ekaba Bisong shows you how machine learning tools and techniques are used to predict or classify events based on a set of interactions between variables known as features or attributes in a particular dataset. He teaches you how deep learning extends the machine learning algorithm of neural networks to learn complex tasks that are difficult for computers to perform, such as recognizing faces and understanding languages. And you will know how to leverage cloud computing to accelerate data science and machine learning deployments. Building Machine Learning and Deep Learning Models on Google Cloud Platform is divided into eight parts that cover the fundamentals of machine learning and deep learning, the concept of data science and cloud services, programming for data science using the Python stack, Google Cloud Platform (GCP) infrastructure and products, advanced analytics on GCP, and deploying end-to-end machine learning solution pipelines on GCP. What You'll Learn Understand the principles and fundamentals of machine learning and deep learning, the algorithms, how to use them, when to use them, and how to interpret your results Know the programming concepts relevant to machine and deep learning design and development using the Python stack Build and interpret machine and deep learning models Use Google Cloud Platform tools and services to develop and deploy large-scale machine learning and deep learning products Be aware of the different facets and design choices to consider when modeling a learning problem Productionalize machine learning models into software products Who This Book Is For Beginners to the practice of data science and applied machine learning, data scientists at all levels, machine learning engineers, Google Cloud Platform data engineers/architects, and software developers

Topological Vector Spaces

This book describes the new generation of discrete choice methods, focusing on the many advances that are made possible by simulation. Researchers use these statistical methods to examine the choices that consumers, households, firms, and other agents make. Each of the major models is covered: logit, generalized extreme value, or GEV (including nested and cross-nested logits), probit, and mixed logit, plus a variety of specifications that build on these basics. Simulation-assisted estimation procedures are investigated and compared, including maximum stimulated likelihood, method of simulated moments, and method of simulated scores. Procedures for drawing from densities are described, including variance reduction techniques such as anithetics and Halton draws. Recent advances in Bayesian procedures are explored, including the use of the Metropolis-Hastings algorithm and its variant Gibbs sampling. The second edition adds chapters on endogeneity and expectation-maximization (EM) algorithms. No other book incorporates all these fields, which have arisen in the past 25 years. The procedures are applicable in many fields, including energy, transportation, environmental studies, health, labor, and marketing.

Recommender Systems Handbook

Listen up, designers, and wipe those grins off your faces! It's time to get serious about your design work. For too long you've allowed yourself to go soft, relying on your software to do all of your creative work for you. This book will NOT show you how to use every tool and feature in Adobe Illustrator. This book WILL, however,

teach you the importance of drawing out your ideas, analyzing the shapes, and then methodically building them precisely in vector form using the methods covered in this book. ¿ In Vector Basic Training, acclaimed iillustrative designer Von Glitschka takes you through his systematic process for creating the kind of precise vector graphics that separate the pros from the toolers and hacks. Along the way, he'll whip your drawing skills into shape and show you how to create elegant curves and precise anchor points for your designs. Between the book and the video tutorials on the included DVD, you'll be ready for active creative duty in zero hundred hours or less.¿ ¿ In Vector Basic Training , you'll learn: ¿The tools, plugins, and shortcuts that make up a design pro's creative armament How to use "The Clockwork Method" to create accurate curves every time When and where to set just the right number of anchor points for any design How to build shapes quickly using familiar Illustrator tools Techniques for art directing yourself so that your work gets the response you desire Why symmetry is your friend and how to use it effectively in your designs Available by download: Von Glitschka reports for duty in over an hour's worth of video tutorials that walk you through all of the techniques explained in the book. Also included: downloadable art files you can use to follow along on your own. See the instructions for download at the end of your ebook.

Using R for Introductory Statistics

Attention, designers, it's time to get serious about your creative process. For too long you've allowed yourself to go soft, relying on your software to do all of your creative work at the expense of your craftsmanship. This book will NOT show you how to use every tool and feature in Adobe Illustrator. This book WILL, however, teach you the importance of drawing out your ideas, analyzing the shapes, and then methodically building them precisely in vector form using the techniques explained in this book. In Vector Basic Training, Second Edition acclaimed illustrative designer Von Glitschka takes you through his systematic process for creating the kind of precise vector graphics that separate the pros from the mere toolers. Along the way, he'll whip your drawing skills into shape and show you how to create elegant curves and precise anchor points for your designs. In addition to new illustrative examples throughout the book, this edition includes an all-new chapter on how to apply color and detail to your illustrations using tried-and-true methods that you'll use over and over again. You'll also get access to over seven hours of all-new HD video tutorials and source files so you can follow along with Von as he walks you through his entire process. Whether you're creating illustrations in Adobe Illustrator, Affinity Designer, CorelDRAW, or even Inkscape, you'll be able to use Von's techniques to establish a successful creative process for crafting consistently precise illustrations every single time you pick you up your pen, stylus, or mouse. In Vector Basic Training, Second Edition, you'll learn: The tools and shortcuts that make up a design pro's creative arsenal How to use "The Clockwork Method" to create accurate curves every time When and where to set just the right number of anchor points for any design How to build shapes quickly using basic Illustrator tools and plug-ins Techniques for art directing yourself to get the results you desire Fundamental methods for applying color and detail to your illustrations

An Introduction to Neural Networks

Design: Logo features a curated collection of nearly 1,700 high impact logo designs from around the world, as well as insightful essays on logo creation from top identity design specialists. In the "Closer Look" sections, the authors dig deep into some of

Communities in Action

Improve your programming through a solid understanding of C pointers and memory management. With this practical book, you'll learn how pointers provide the mechanism to dynamically manipulate memory, enhance support for data structures, and enable access to hardware. Author Richard Reese shows you how to use pointers with arrays, strings, structures, and functions, using memory models throughout the book. Difficult to master, pointers provide C with much flexibility and power—yet few resources are dedicated to this data type. This comprehensive book has the information you need, whether you're a beginner or an experienced C or C++ programmer or developer. Get an introduction to pointers, including the declaration of different pointer types Learn about dynamic memory allocation, de-allocation, and alternative memory management techniques Use techniques for passing or returning data to and from functions Understand the fundamental aspects of arrays as they relate to pointers Explore the basics of strings and how pointers are used to support them Examine why pointers can be the source of security problems, such as buffer overflow Learn several pointer techniques, such as the use of opaque pointers, bounded pointers and, the restrict keyword

Vector Graphics and Illustration

From news and speeches to informal chatter on social media, natural language is one of the richest and most underutilized sources of data. Not only does it come in a constant stream, always changing and adapting in context; it also contains information that is not conveyed by traditional data sources. The key to unlocking natural language is through the creative application of text analytics. This practical book presents a data scientist's approach to building language-aware products with applied machine learning. You'll learn robust, repeatable, and scalable techniques for text analysis with Python, including contextual and linguistic feature engineering, vectorization, classification, topic modeling, entity resolution, graph analysis, and visual steering. By the end of the book, you'll be equipped with practical methods to solve any number of complex real-world problems. Preprocess and vectorize text into high-dimensional feature representations Perform document classification and topic modeling Steer the model selection process with visual diagnostics Extract key phrases, named entities, and graph structures to reason about data in text Build a dialog framework to enable chatbots and language-driven interaction Use Spark to scale processing power and neural networks to scale model complexity

Advances in Self-Organizing Maps

This second edition of a well-received text, with 20 new chapters, presents a coherent and unified repository of recommender systems' major concepts,

theories, methodologies, trends, and challenges. A variety of real-world applications and detailed case studies are included. In addition to wholesale revision of the existing chapters, this edition includes new topics including: decision making and recommender systems, reciprocal recommender systems, recommender systems in social networks, mobile recommender systems, explanations for recommender systems, music recommender systems, cross-domain recommendations, privacy in recommender systems, and semantic-based recommender systems. This multi-disciplinary handbook involves world-wide experts from diverse fields such as artificial intelligence, human-computer interaction, information retrieval, data mining, mathematics, statistics, adaptive user interfaces, decision support systems, psychology, marketing, and consumer behavior. Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas, methods and techniques for developing more efficient, cost-effective and accurate recommender systems.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION