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[Introduction to Information Retrieval](#) Dec 26 2020 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.

[Artificial Intelligence](#) Aug 14 2022 Artificial Intelligence presents a practical guide to AI, including agents, machine learning and problem-solving simple and complex domains.

Property Jan 07 2022 CasebookPlus Hardbound - New, hardbound print book includes lifetime digital access to an eBook, with the ability to highlight and take notes, and 12-month access to a digital Learning Library that includes self-assessment quizzes tied to this book, leading study aids, an outline starter, and Gilbert Law Dictionary.

The Modern Law of Contracts May 19 2020 This contracts casebook includes introductions that quickly orient students within unfamiliar territories. Cases present both the doctrine applied and, in some instances, the shortcomings of that doctrine. The authors express their disagreement about basic issues, so that students can experience the range of possible in modern contract law. To save time, the authors avoid extensive citation of academic scholarship except as it pertains to the cases being studied. Certain traditional subjects such as offer and acceptance and consideration are reduced to the bare minimum, where more pivotal subjects such as form contracts, arbitration clauses, and the modern concept of unconscionability are considered at length.

[Criminal Law](#) Oct 24 2020 This state-of-the-art casebook is both easy and fun to use. It is designed to give you the basis for an enjoyable, comprehensive learning experience for your students, providing you with the sort of piquing materials that should prompt interested and insightful classroom discussion. The focus here is on teachability, rather than encyclopedic coverage of the field. Many modern, cutting-edge cases and related features are included, as well as the classic decisions, making it possible for you to show students the most current issues in the law as well as the traditional doctrinal underpinnings of this area. Numerous problem-style hypotheticals are also included throughout, serving to stimulate and encourage thought and discussion but also to help you focus your students on practice-oriented, analytical skills. The book also contains updated cases that bring the book entirely up-to-date.

Professional Responsibility Jun 12 2022 In Print and Online, Professional Responsibility: A Contemporary Approach makes legal ethics fun and challenging by offering a comprehensive treatment of the law and ethics of lawyers' work in a contemporary and accessible format. Faculty will have the option of using the casebook as an innovative paper text or as the foundation for a computer interactive pedagogy that features thought-provoking internet links, as well as multiple choice questions that allow the professor to connect interactively with each student through TWEN, even in a large lecture class. Unlike traditional law books, Professional Responsibility: A Contemporary Approach provides the resources of both a traditional casebook and of the internet, including access to Westlaw and TWEN.

[Artificial Intelligence](#) Jul 25 2023 Artificial Intelligence: A Modern Approach offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence. Number one in its field, this textbook is ideal for one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence.

A Modern Approach to Evidence Mar 21 2023

[From Paradise to the Promised Land](#) Apr 29 2021 This text has been a popular introduction to the Pentateuch for over fifteen years, offering a unique alternative to the critical approaches that focus on the composition of these books rather than the actual content. With this new edition, T. Desmond Alexander keeps the book fresh and relevant for contemporary students by updating the references and adding material that reflects recent pentateuchal research as well as the author's maturing judgments. The result is a revision that will prove valuable for many years to come.

[The Hundred-page Machine Learning Book](#) Sep 22 2020 Provides a practical guide to get started and execute on machine learning within a few days without necessarily knowing much about machine learning. The first five chapters are enough to get you started and the next few chapters provide you a good feel of more advanced topics to pursue.

[Intermediate Microeconomics with Calculus: A Modern Approach](#) Apr 10 2022 From Google's chief economist, Varian's best-selling intermediate microeconomics texts are revered as some of the best in the field. And now students can work problems online with Smartwork5, Norton's online homework system, packaged at no additional charge with the Media Update Editions. In addition to online homework, the texts now include four-color graphs and new interactive animations.

[Computer Vision: A Modern Approach](#) Sep 15 2022 Appropriate for upper-division undergraduate- and graduate-level courses in computer vision found in departments of Computer Science, Computer Engineering and Electrical Engineering. This textbook provides the most complete treatment of modern computer vision methods by two of the leading authorities in the field. This accessible presentation gives both a general view of the entire computer vision enterprise and also offers sufficient detail for students to be able to build useful applications. Students will learn techniques that have proven to be useful by first-hand experience and a wide range of mathematical methods.

The Fourth Political Theory Mar 09 2022 Modern political systems have been the products of liberal democracy, Marxism, or fascism. Dugin asserts a fourth ideology is needed to sift through the debris of the first three to look for elements that might be useful, but that remains innovative and unique in itself.

Contemporary Tourism Jul 01 2021 Now in its fourth edition, it presents a new and refreshing approach to the study of tourism, considering issues such as overtourism, advances in AI and its impacts, waste management and environmental crisis, the sharing economy and Airbnb, the tourist experience and product development.

Intermediate Microeconomics: A Modern Approach 4th Ed Paper May 23 2023

Deep Learning Illustrated Aug 22 2020 "The authors' clear visual style provides a comprehensive look at what's currently possible with artificial neural networks as well as a glimpse of the magic that's to come." – Tim Urban, author of *Wait But Why Fully Practical, Insightful Guide to Modern Deep Learning* Deep learning is transforming software, facilitating powerful new artificial intelligence capabilities, and driving unprecedented algorithm performance. *Deep Learning Illustrated* is uniquely intuitive and offers a complete introduction to the discipline's techniques. Packed with full-color figures and easy-to-follow code, it sweeps away the complexity of building deep learning models, making the subject approachable and fun to learn. World-class instructor and practitioner Jon Krohn—with visionary content from Grant Beyleveld and beautiful illustrations by Aglaé Bassens—presents straightforward analogies to explain what deep learning is, why it has become so popular, and how it relates to other machine learning approaches. Krohn has created a practical reference and tutorial for developers, data scientists, researchers, analysts, and students who want to start applying it. He illuminates theory with hands-on Python code in accompanying Jupyter notebooks. To help you progress quickly, he focuses on the versatile deep learning library Keras to nimbly construct efficient TensorFlow models; PyTorch, the leading alternative library, is also covered. You'll gain a pragmatic understanding of all major deep learning approaches and their uses in applications ranging from machine vision and natural language processing to image generation and game-playing algorithms. Discover what makes deep learning systems unique, and the implications for practitioners Explore new tools that make deep learning models easier to build, use, and improve Master essential theory: artificial neurons, training, optimization, convolutional nets, recurrent nets, generative adversarial networks (GANs), deep reinforcement learning, and more Walk through building interactive deep learning applications, and move forward with your own artificial intelligence projects Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Deep Learning with PyTorch Nov 05 2021 "We finally have the definitive treatise on PyTorch! It covers the basics and abstractions in great detail. I hope this book becomes your extended reference document." —Soumith Chintala, co-creator of PyTorch Key Features Written by PyTorch's creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Every other day we hear about new ways to put deep learning to good use: improved medical imaging, accurate credit card fraud detection, long range weather forecasting, and more. PyTorch puts these superpowers in your hands. Instantly familiar to anyone who knows Python data tools like NumPy and Scikit-learn, PyTorch simplifies deep learning without sacrificing advanced features. It's great for building quick models, and it scales smoothly from laptop to enterprise. *Deep Learning with PyTorch* teaches you to create deep learning and neural network systems with PyTorch. This practical book gets you to work right away building a tumor image classifier from scratch. After covering the basics, you'll learn best practices for the entire deep learning pipeline, tackling advanced projects as your PyTorch skills become more sophisticated. All code samples are easy to explore in downloadable Jupyter notebooks. What You Will Learn Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API, loading data in Python, and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data, better model architecture, and fine tuning This Book Is Written For For Python programmers with an interest in machine learning. No experience with PyTorch or other deep learning frameworks is required. About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer, and the past 7 years as Chief Technical Officer of a startup making medical device software. Luca Antiga is co-founder and CEO of an AI engineering company located in Bergamo, Italy, and a regular contributor to PyTorch. Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich, Germany and a PyTorch core developer. Table of Contents PART 1 - CORE PYTORCH 1 Introducing deep learning and the PyTorch Library 2 Pretrained networks 3 It starts with a tensor 4 Real-world data representation using tensors 5 The mechanics of learning 6 Using a neural network to fit the data 7 Telling birds from airplanes: Learning from images 8 Using convolutions to generalize PART 2 - LEARNING FROM IMAGES IN THE REAL WORLD: EARLY DETECTION OF LUNG CANCER 9 Using PyTorch to fight cancer 10 Combining data sources into a unified dataset 11 Training a classification model to detect suspected tumors 12 Improving training with metrics and augmentation 13 Using segmentation to find suspected nodules 14 End-to-end nodule analysis, and where to go next PART 3 - DEPLOYMENT 15 Deploying to production

Artificial Intelligence: A Modern Approach, Global Edition Jun 24 2023 Explore the ever-expanding, fascinating field of Artificial Intelligence and its latest technologies with this industry-leading text. *Artificial Intelligence: A Modern Approach, Global Edition, 4th Edition* by Stuart Russel and Peter Norvig is the long-anticipated revision of this market-leading text, exploring the full breadth and depth of the field of Artificial Intelligence (AI). From robotic planetary explorers to online services with billions of users, the textbook covers a wide range of applications, delving into the advanced methods of reasoning, deep learning, perception and mathematics. Thoroughly updated and with new content, this latest edition brings you up to date on the latest technological advancements in the field, presenting concepts in a more unified manner. Some of the changes in the content include: Content that focuses deeper on machine learning rather than the hand-crafted knowledge of engineering. An updated, thorough discussion emphasises deep learning, probabilistic programming, and multi-agent systems. Extensive updates on the Robotics chapter now include content regarding the interaction of robots with humans. A new online site now includes all the exercises for this edition, allowing the team of authors to update and improve them continuously. Besides studying the methods and technologies, this edition also considers the ethical aspects and values of practicing the discipline. Fairness, integrity, respect, and social good, provide a fundamental framework to the learning process in this edition, studying the impact of AI on society. With a plethora of topics, exercises, and practical applications, this leading text is the must-read edition of this field, offering a deeper understanding and a multi-faceted approach to this expanding subject.

Artificial Intelligence Apr 22 2023 The long-anticipated revision of this best-selling text offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence.

Modern Methods of Organic Synthesis South Asia Edition May 11 2022 Textbook on modern methods of organic synthesis.

Intelligent Help Systems for UNIX Dec 06 2021 In this international collection of papers there is a wealth of knowledge on artificial intelligence (AI) and cognitive science (CS) techniques applied to the problem of providing help systems mainly for the UNIX operating system. The research described here involves the representation of technical computer concepts, but also the representation of how users conceptualise such concepts. The collection looks at computational models and systems such as UC, Yucca, and OSCON programmed in languages such as Lisp, Prolog, OPS-5, and C which have been developed to provide UNIX help. These systems range from being menu-based to ones with natural language interfaces, some providing active help, intervening when they believe the user to have misconceptions, and some based on empirical studies of what users actually do while using UNIX. Further papers investigate planning and knowledge representation where the focus is on discovering what the user wants to do, and figuring out a way to do it, as well as representing the knowledge needed to do so. There is a significant focus on natural language dialogue where consultation systems can become active, incorporating user modelling, natural language generation and plan recognition, modelling metaphors, and users' mistaken beliefs. Much can be learned from seeing how AI and CS techniques can be investigated in depth while being applied to a real test-bed domain such as help on

UNIX.

Introduction to Optimum Design Sep 03 2021 Introduction to Optimum Design, Third Edition describes an organized approach to engineering design optimization in a rigorous yet simplified manner. It illustrates various concepts and procedures with simple examples and demonstrates their applicability to engineering design problems. Formulation of a design problem as an optimization problem is emphasized and illustrated throughout the text. Excel and MATLAB® are featured as learning and teaching aids. Basic concepts of optimality conditions and numerical methods are described with simple and practical examples, making the material highly teachable and learnable. Includes applications of optimization methods for structural, mechanical, aerospace, and industrial engineering problems. Introduction to MATLAB Optimization Toolbox Practical design examples introduce students to the use of optimization methods early in the book. New example problems throughout the text are enhanced with detailed illustrations. Optimum design with Excel Solver has been expanded into a full chapter. New chapter on several advanced optimum design topics serves the needs of instructors who teach more advanced courses.

Introductory Econometrics: A Modern Approach Jan 19 2023 Discover how empirical researchers today actually think about and apply econometric methods with the practical, professional approach in Wooldridge's **INTRODUCTORY ECONOMETRICS: A MODERN APPROACH, 6E**. Unlike traditional books, this unique presentation demonstrates how econometrics has moved beyond just a set of abstract tools to become genuinely useful for answering questions in business, policy evaluation, and forecasting environments. **INTRODUCTORY ECONOMETRICS** is organized around the type of data being analyzed with a systematic approach that only introduces assumptions as they are needed. This makes the material easier to understand and, ultimately, leads to better econometric practices. Packed with timely, relevant applications, the book introduces the latest emerging developments in the field. Gain a full understanding of the impact of econometrics in real practice today with the insights and applications found only in **INTRODUCTORY ECONOMETRICS: A MODERN APPROACH, 6E**. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Modern Applied Statistics with S-PLUS Feb 08 2022 A guide to using the power of S-PLUS to perform statistical analyses, providing both an introduction to the program and a course in modern statistical methods. Readers are assumed to have a basic grounding in statistics, thus the book is intended for would-be users, as well as students and researchers using statistics. Throughout, the emphasis is on presenting practical problems and full analyses of real data sets, with many of the methods discussed being modern approaches to topics such as linear and non-linear regression models, robust and smooth regression methods, survival analysis, multivariate analysis, tree-based methods, time series, spatial statistics, and classification. This second edition is intended for users of S-PLUS 3.3, or later, and covers both Windows and UNIX. It treats the recent developments in graphics and new statistical functionality, including bootstrapping, mixed effects linear and non-linear models, factor analysis, and regression with autocorrelated errors. The authors have written several software libraries which enhance S-PLUS, and these, plus all the datasets used, are available on the Internet.

Conscious Mind, Resonant Brain Jul 13 2022 How does your mind work? How does your brain give rise to your mind? These are questions that all of us have wondered about at some point in our lives, if only because everything that we know is experienced in our minds. They are also very hard questions to answer. After all, how can a mind understand itself? How can you understand something as complex as the tool that is being used to understand it? This book provides an introductory and self-contained description of some of the exciting answers to these questions that modern theories of mind and brain have recently proposed. Stephen Grossberg is broadly acknowledged to be the most important pioneer and current research leader who has, for the past 50 years, modelled how brains give rise to minds, notably how neural circuits in multiple brain regions interact together to generate psychological functions. This research has led to a unified understanding of how, where, and why our brains can consciously see, hear, feel, and know about the world, and effectively plan and act within it. The work embodies revolutionary Principia of Mind that clarify how autonomous adaptive intelligence is achieved. It provides mechanistic explanations of multiple mental disorders, including symptoms of Alzheimer's disease, autism, amnesia, and sleep disorders; biological bases of morality and religion, including why our brains are biased towards the good so that values are not purely relative; perplexing aspects of the human condition, including why many decisions are irrational and self-defeating despite evolution's selection of adaptive behaviors; and solutions to large-scale problems in machine learning, technology, and Artificial Intelligence that provide a blueprint for autonomously intelligent algorithms and robots. Because brains embody a universal developmental code, unifying insights also emerge about shared laws that are found in all living cellular tissues, from the most primitive to the most advanced, notably how the laws governing networks of interacting cells support developmental and learning processes in all species. The fundamental brain design principles of complementarity, uncertainty, and resonance that Grossberg has discovered also reflect laws of the physical world with which our brains ceaselessly interact, and which enable our brains to incrementally learn to understand those laws, thereby enabling humans to understand the world scientifically. Accessibly written, and lavishly illustrated, **Conscious Mind/Resonant Brain** is the magnum opus of one of the most influential scientists of the past 50 years, and will appeal to a broad readership across the sciences and humanities.

Do the Right Thing Nov 24 2020 Like Mooki, the hero of Spike Lee's film "Do the Right Thing," artificially intelligent systems have a hard time knowing what to do in all circumstances. Classical theories of perfect rationality prescribe the "right thing" for any occasion, but no finite agent can compute their prescriptions fast enough. In **Do the Right Thing**, the authors argue that a new theoretical foundation for artificial intelligence can be constructed in which rationality is a property of "programs" within a finite architecture, and their behavior over time in the task environment, rather than a property of individual decisions. **Do the Right Thing** suggests that the rich structure that seems to be exhibited by humans, and ought to be exhibited by AI systems, is a necessary result of the pressure for optimal behavior operating within a system of strictly limited resources. It provides an outline for the design of new intelligent systems and describes theoretical and practical tools for bringing about intelligent behavior in finite machines. The tools are applied to game planning and realtime problem solving, with surprising results.

Physics for Scientists and Engineers Nov 17 2022

Calculus on Manifolds Jan 27 2021 This book uses elementary versions of modern methods found in sophisticated mathematics to discuss portions of "advanced calculus" in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level.

Introductory Econometrics May 31 2021

Computational Complexity Dec 18 2022 New and classical results in computational complexity, including interactive proofs, PCP, derandomization, and quantum computation. Ideal for graduate students.

Principles and Practice of Structural Equation Modeling, Fourth Edition Oct 16 2022 New to This Edition *Extensively revised to cover important new topics: Pearl's graphing theory and SCM, causal inference frameworks, conditional process modeling, path models for longitudinal data, item response theory, and more. *Chapters on best practices in all stages of SEM, measurement invariance in confirmatory factor analysis, and significance testing issues and bootstrapping. *Expanded coverage of psychometrics. *Additional computer tools: online files for all detailed examples, previously provided in EQS, LISREL, and Mplus, are now also given in Amos, Stata, and R (lavaan). *Reorganized to cover the specification, identification, and analysis of observed variable models separately from latent variable models. Pedagogical Features *Exercises with answers, plus end-of-chapter annotated lists of further reading. *Real examples of troublesome data, demonstrating how to handle typical problems in analyses.

Intermediate Microeconomics: A Modern Approach Mar 29 2021 This best-selling text is still the most modern presentation of the subject. The Varian approach gives students tools they can use on exams, in the rest of their classes, and in their careers after graduation.

Artificial Intelligence Aug 26 2023 "Updated edition of popular textbook on Artificial Intelligence. This edition specific looks at ways of keeping artificial intelligence under control"--

A Modern Approach to Naming Guitar Chords 4th Ed. Jul 21 2020 Finally—an intuitive, single-source standardization for naming guitar chords in the 21st century! A honing of guitar theory as a subcategory of music theory. Commonsense approach to all things guitar chord, including how to label

alternate chord voicings. New concepts, including natural harmonics chords, unison chords, and octaval chords. A massive Instructional Glossary with clear and precise definitions, benefiting both guitarists and music theorists alike. Appendices containing 747 graphical guitar chord boxes and definitions for several guitar tunings: • Standard • Open Major A/E • Open Major G/D • Drop D • Double Drop D • Bruce Palmer Modal “Band of Witches” sample song sheet. Procedures for registering a copyright with the U.S. Copyright Office. Introduction to U.S. copyright law’s fair use doctrine, including a comparison of mechanical and sync licenses. Presented in an easy-to-read, connect-the-dots manner. An absolute must-read for the guitarist wanting to transcribe new sound-creations into guitar chords. The only textbook needed for a Progressive Guitar Theory 105 course. Though geared toward the needs of a seasoned guitarist, this book contains a wealth of information that will benefit anyone, from the casual campfire-strumming enthusiast to avid music theorists looking for a greater understanding of the challenges facing non-sight-reading guitar players. Book Review: "A soup-to-nuts guide for guitarists looking for a comprehensive way to name and notate chords. Music theory and practicality are sometimes at odds. For example, theory dictates that a chord must have three or more notes, but as debut author Davis explains in his introduction, guitarists play two-note formations frequently, which they must then label as chords when transcribing. As one gets deeper into theory, the conflicts can get more complicated in terms of where a “root” note might lay in a chord sequence, or how a chord might fit in a particular scale. Davis seeks to solve that quandary with a practical standard for working guitarists. It’s a complicated task, and this book provides a lot of context for readers to consider, explaining pitch, tuning, scales, and intervals, and even providing information on copyrighting musical works. Along the way, he takes a lot of advanced ideas into account, such as unaltered nonextended chords, unaltered extended chords, suspended nonextended chords, and the like. Chances are that any guitarist who’s attracted by the title of this book already knows enough to follow these theoretical aspects. The author offers a process to make these concepts clearer, [to Gatekeeper: my rewrite attends to the rest of the sentence & the next one] but it’s not a basic, numbered list of steps. Readers with no education in theory may have to read passages several times to put the level of detail into proper perspective [to Gatekeeper: this ends the portion of the Review I "fixed."]. A weekend warrior who’s happy banging out basic G-C-D or E-A-D progressions, for instance, won’t find much use for the theory, but those looking to move forward will find value in the first, basic chapters and the massive appendices, which feature definitions of everything from Travis picking to truss rods. For guitarists who write, the most useful aspect of this book may be the chord guide, which includes voicings for both standard and alternate tunings. A complex manual for guitar players who want to keep learning new things." -- Kirkus Indie Reviews

[A Course of Modern Analysis](#) Oct 04 2021

Real-Time Rendering, Fourth Edition Jun 19 2020 Thoroughly updated, this fourth edition focuses on modern techniques used to generate synthetic three-dimensional images in a fraction of a second. With the advent of programmable shaders, a wide variety of new algorithms have arisen and evolved over the past few years. This edition discusses current, practical rendering methods used in games and other applications. It also presents a solid theoretical framework and relevant mathematics for the field of interactive computer graphics, all in an approachable style. New to this edition: new chapter on VR and AR as well as expanded coverage of Visual Appearance, Advanced Shading, Global Illumination, and Curves and Curved Surfaces.

Experiencing Cities Aug 02 2021 This extraordinary text for undergraduate urban students is a reflection of Mark Hutter’s academic interests in urban sociology and his life-long passion for experiencing city life. His deep academic roots in the Chicago School of Sociology help inform and appreciate the variety of urban structures and processes and their effect on the everyday lives of people living in cities. This text, however, extends the Chicago School perspective by combining its traditions with a social psychological perspective derived from symbolic interaction and also with a macro-level examination of social organization, social change, stratification and power in the urban context, informed by political economy. This entirely new, 3rd Edition has a global outlook on city life, and a visual presentation unmatched among books in this genre.

[Linear Algebra: A Modern Introduction](#) Feb 20 2023 David Poole's innovative LINEAR ALGEBRA: A MODERN INTRODUCTION, 4e emphasizes a vectors approach and better prepares students to make the transition from computational to theoretical mathematics. Balancing theory and applications, the book is written in a conversational style and combines a traditional presentation with a focus on student-centered learning. Theoretical, computational, and applied topics are presented in a flexible yet integrated way. Stressing geometric understanding before computational techniques, vectors and vector geometry are introduced early to help students visualize concepts and develop mathematical maturity for abstract thinking. Additionally, the book includes ample applications drawn from a variety of disciplines, which reinforce the fact that linear algebra is a valuable tool for modeling real-life problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Statistical Power Analysis Apr 17 2020 This book presents a simple and general method for conducting statistical power analysis based on the widely used F statistic. The book illustrates how these analyses work and how they can be applied to problems of studying design, to evaluate others' research, and to choose the appropriate criterion for defining "statistically significant" outcomes. Statistical Power Analysis examines the four major applications of power analysis, concentrating on how to determine: *the sample size needed to achieve desired levels of power; *the level of power that is needed in a study; *the size of effect that can be reliably detected by a study; and *sensible criteria for statistical significance. Highlights of the second edition include: a CD with an easy-to-use statistical power analysis program; a new chapter on power analysis in multi-factor ANOVA, including repeated-measures designs; and a new One-Stop PV Table to serve as a quick reference guide. The book discusses the application of power analysis to both traditional null hypothesis tests and to minimum-effect testing. It demonstrates how the same basic model applies to both types of testing and explains how some relatively simple procedures allow researchers to ask a series of important questions about their research. Drawing from the behavioral and social sciences, the authors present the material in a nontechnical way so that readers with little expertise in statistical analysis can quickly obtain the values needed to carry out the power analysis. Ideal for students and researchers of statistical and research methodology in the social, behavioral, and health sciences who want to know how to apply methods of power analysis to their research.

Building Machine Learning Powered Applications Feb 25 2021 Learn the skills necessary to design, build, and deploy applications powered by machine learning (ML). Through the course of this hands-on book, you’ll build an example ML-driven application from initial idea to deployed product. Data scientists, software engineers, and product managers—including experienced practitioners and novices alike—will learn the tools, best practices, and challenges involved in building a real-world ML application step by step. Author Emmanuel Ameisen, an experienced data scientist who led an AI education program, demonstrates practical ML concepts using code snippets, illustrations, screenshots, and interviews with industry leaders. Part I teaches you how to plan an ML application and measure success. Part II explains how to build a working ML model. Part III demonstrates ways to improve the model until it fulfills your original vision. Part IV covers deployment and monitoring strategies. This book will help you: Define your product goal and set up a machine learning problem Build your first end-to-end pipeline quickly and acquire an initial dataset Train and evaluate your ML models and address performance bottlenecks Deploy and monitor your models in a production environment

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