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GORDON DECKER

Introductory Statistics 2e (hardcover, Full Color) "O'Reilly Media, Inc."

An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject."
—Elon Musk, cochair of OpenAI; cofounder

and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad

range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer

vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

The Knot Book John Wiley & Sons

The latest volume in the AMS's high-profile GSM series. The book presents a very accessible exposition of a powerful, but difficult to explain method of solving Partial Differential Equations. Would make an excellent text for courses on modern methods for solving Partial Differential Equations. Very readable treatise of an important and remarkable technique. Strong bookstore candidate.

Introduction to Security CRC Press

This book is a survey of the complex world of graphic communication. It is focused largely on print, both conventional and digital, and the processes that make it possible. It is also about the myriad ways digital technology;from desktop design to web-based publishing, commerce, and IT;affects the art, science, and business of printing.

Mechanical Engineering Systems Good Press

Book Publication Date: Dec 13, 2023. Full color. Introductory Statistics 2e provides an engaging, practical, and thorough overview of the core concepts and skills taught in most one-semester statistics courses. The text focuses on diverse applications from a variety of fields and societal contexts, including business, healthcare, sciences, sociology, political science, computing, and several others. The material supports students with conceptual narratives, detailed step-by-step examples, and a wealth of illustrations, as well as collaborative exercises, technology integration problems, and statistics labs. The text assumes some knowledge of intermediate algebra, and includes thousands of

problems and exercises that offer instructors and students ample opportunity to explore and reinforce useful statistical skills.

R for Data Science American Mathematical Soc.

This second edition of the foundational textbook *An Introduction to Applied Linguistics* provides a state-of-the-art account of contemporary applied linguistics. The kinds of language problems of interest to applied linguists are discussed and a distinction drawn between the different research approach taken by theoretical linguists and by applied linguists to what seem to be the same problems. Professor Davies describes a variety of projects which illustrate the interests of the field and highlight the marriage it offers between practical experience and theoretical understanding. The increasing emphasis of applied linguistics on ethicality is linked to the growth of professionalism and to the concern for accountability, manifested in the widening emphasis on critical stances. This, Davies argues, is at its most acute in the tension between giving advice as the outcome of research and taking political

action in order to change a situation which, it is claimed, needs ameliorisation. This dilemma is not confined to applied linguistics and may now be endemic in the applied disciplines.

An Introduction to Data Elsevier
Reprint of the original, first published in 1866.

Introduction to Business American
Mathematical Soc.

This text introduces students to the theory and practice of differential equations, which are fundamental to the mathematical formulation of problems in physics, chemistry, biology, economics, and other sciences. The book is ideally suited for undergraduate or beginning graduate students in mathematics, and will also be useful for students in the physical sciences and engineering who have already taken a three-course calculus sequence. This second edition incorporates much new material, including sections on the Laplace transform and the matrix Laplace transform, a section devoted to Bessel's equation, and sections on applications of variational methods to geodesics and to rigid body motion. There is also a more complete treatment of the

Runge-Kutta scheme, as well as numerous additions and improvements to the original text. Students finishing this book will be well prepared

Introduction to Psychology

CreateSpace

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We

also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Introduction to Research Butterworth-Heinemann

Renowned applied mathematician Gilbert Strang teaches applied mathematics with the clear explanations, examples and insights of an experienced teacher. This book progresses steadily through a range of topics from symmetric linear systems to differential equations to least squares and Kalman filtering and optimization. It clearly demonstrates the power of matrix algebra in engineering problem solving. This is an ideal book (beloved by many readers) for a first course on applied mathematics and a reference for more advanced applied

mathematicians. The only prerequisite is a basic course in linear algebra.

A Gentle Introduction to the American Invitational Mathematics Exam Athabasca University Press

"Chad's manifesto delivers a simple but profound truth: you have unique art to offer the world, and deliberate action is the only path to making it happen. A wonderful (and welcome) kick in the pants!"--Todd Henry, author of *The Accidental Creative* and *Die Empty* ~~~~ This little book could change everything for you. Do you have a passion or side project that energizes you? It could be a different job, a book idea, an art project, a blog, a business idea, a nonprofit you'd like to start. In this brief manifesto popular blogger Chad R. Allen uses stories and a series of questions to help you identify your passion and take practical steps toward living it out, intentionally and sustainably. Whether you've begun to "Do Your Art" or are just thinking about it, you can do this. And we need you to do it. This book will help.

Do Your Art Routledge

The authors of *Mechanical Engineering Systems* have taken a highly practical

approach within this book, bringing the subject to life through a lively text supported by numerous activities and case studies. Little prior knowledge of mathematics is assumed and so key numerical and statistical techniques are introduced through unique *Maths in Action* features. The IIE Textbook Series from Butterworth-Heinemann Student-focused textbooks with numerous examples, activities, problems and knowledge-check questions Designed for a wide range of undergraduate courses Real-world engineering examples at the heart of each book Contextual introduction of key mathematical methods through *Maths in Action* features Core texts suitable for students with no previous background studying engineering "I am very proud to be able to introduce this series as the fruition of a joint publishing venture between Butterworth-Heinemann and the Institution of Incorporated Engineers. *Mechanical Engineering Systems* is one of the first three titles in a series of core texts designed to cover the essential modules of a broad cross-section of undergraduate programmes in engineering and technology. These books

are designed with today's students firmly in mind, and real-world engineering contexts to the fore - students who are increasingly opting for the growing number of courses that provide the foundation for Incorporated Engineer registration." --Peter F Wason BSc(Eng) CEng FIEE FIE FIMechE FIMgt. Secretary and Chief Executive, IIE This essential text is part of the IIE accredited textbook series from Newnes - textbooks to form the strong practical, business and academic foundations for the professional development of tomorrow's incorporated engineers. Forthcoming lecturer support materials and the IIE textbook series website will provide additional material for handouts and assessment, plus the latest web links to support, and update case studies in the book. Content matched to requirements of IIE and other BSc Engineering and Technology courses Practical text featuring worked examples, case studies, assignments and knowledge-check questions throughout. *Maths in Action* panels introduce key mathematical methods in their engineering contexts [Introduction to Graphic Communication](#) The Mathematical Association of America

Suitable for self study Use real examples and real data sets that will be familiar to the audience Introduction to the bootstrap is included – this is a modern method missing in many other books

An Introduction to the Bootstrap BoD – Books on Demand

Starting from simple generalizations of factorials and binomial coefficients, this book gives a friendly and accessible introduction to q -analysis, a subject consisting primarily of identities between certain kinds of series and products. Many applications of these identities to combinatorics and number theory are developed in detail. There are numerous exercises to help students appreciate the beauty and power of the ideas, and the history of the subject is kept consistently in view. The book has few prerequisites beyond calculus. It is well suited to a capstone course, or for self-study in combinatorics or classical analysis. Ph.D. students and research mathematicians will also find it useful as a reference.

Anatomy and Physiology Cambridge University Press

Table of contents: I. The scientific mood. II. The aim of science. III. Scientific methods.

IV. Classification of the sciences. V. Science and philosophy. VI. Science and art. VII. Science and religion. VIII. The utility of science. IX. References to books. Index.

EBOOK: INTRO TO ORGANIZATIONAL Wellesley-Cambridge Press

INTRODUCTION TO RESEARCH provides the reader with a foundation from which to critique and understand research designs and their applications to healthcare and human service settings. It is divided into four parts: Introduction, Thinking Processes, Design Approaches, and Action Processes. The text reflects a new school of thought that recognizes and values multiple research strategies. This perspective proposes that naturalistic and experimental-type research strategies have equal value and contribute in complementary and distinct ways to a science of practice. Knowledge of these different research traditions presents new opportunities for addressing the complex health-related research questions that are emerging in today's health and human service environments.

Introduction to Deep Learning Springer
Knots are familiar objects. Yet the

mathematical theory of knots quickly leads to deep results in topology and geometry. This work offers an introduction to this theory, starting with our understanding of knots. It presents the applications of knot theory to modern chemistry, biology and physics.

Introduction to Natural Language

Processing American Mathematical Soc.

This book is a celebration of mathematical problem solving at the level of the high school American Invitational Mathematics Examination. There is no other book on the market focused on the AIME. It is intended, in part, as a resource for comprehensive study and practice for the AIME competition for students, teachers, and mentors. After all, serious AIME contenders and competitors should seek a lot of practice in order to succeed.

However, this book is also intended for anyone who enjoys solving problems as a recreational pursuit. The AIME contains many problems that have the power to foster enthusiasm for mathematics – the problems are fun, engaging, and addictive. The problems found within these pages can be used by teachers who wish to challenge their students, and they can be

used to foster a community of lovers of mathematical problem solving! There are more than 250 fully-solved problems in the book, containing examples from AIME competitions of the 1980's, 1990's, 2000's, and 2010's. In some cases, multiple solutions are presented to highlight variable approaches. To help problem-solvers with the exercises, the author provides two levels of hints to each exercise in the book, one to help stuck starters get an idea how to begin, and another to provide more guidance in navigating an approach to the solution. Proceedings of the American Society for Horticultural Science McGraw Hill Thoroughly revised and expanded, Introduction to Attic Greek, 2nd Edition gives student and instructors the most comprehensive and accessible presentation of ancient Greek available. The text features: • Full exposure to the grammar and morphology that students will encounter in actual texts • Self-contained instructional chapters, with challenging, carefully tailored exercises • Progressively more complex chapters to build the student's knowledge of declensions, tenses, and constructions by

alternating emphasis on morphology and syntax • Readings based on actual texts and include unadapted passages from Xenophon, Lysias, Plato, Aristophanes, and Thucydides. • Concise introduction to the history of the Greek language • Composite list of verbs with principal parts, and an appendix of all paradigms • Greek-English and English-Greek glossaries Additional Resources: • Robust online supplements for teaching and learning available at atticgreek.org • Answer Key to exercises also available from UC Press (978-0-520-27574-4)

An Introduction to the Study of National Music Edinburgh University Press

This textbook presents a concise, accessible and engaging first introduction to deep learning, offering a wide range of connectionist models which represent the current state-of-the-art. The text explores the most popular algorithms and architectures in a simple and intuitive style, explaining the mathematical derivations in a step-by-step manner. The content coverage includes convolutional networks, LSTMs, Word2vec, RBMs, DBNs, neural Turing machines, memory networks

and autoencoders. Numerous examples in working Python code are provided throughout the book, and the code is also supplied separately at an accompanying website. Topics and features: introduces the fundamentals of machine learning, and the mathematical and computational prerequisites for deep learning; discusses feed-forward neural networks, and explores the modifications to these which can be applied to any neural network; examines convolutional neural networks, and the recurrent connections to a feed-forward neural network; describes the notion of distributed representations, the concept of the autoencoder, and the ideas behind language processing with deep learning; presents a brief history of artificial intelligence and neural networks, and reviews interesting open research problems in deep learning and connectionism. This clearly written and lively primer on deep learning is essential reading for graduate and advanced undergraduate students of computer science, cognitive science and mathematics, as well as fields such as linguistics, logic, philosophy, and psychology.

Special Reports on Educational Subjects

Hasanraza Ansari

Responding to the growth of digital products and the commercial imperative to build new digital businesses, *The Business of Digital Publishing* offers a comprehensive introduction to the development of digital products in the book and journal industries. This textbook provides background to the main

technological development that have influenced the growth of digital publishing, introducing students to the key terms and concepts that make digital publishing possible. Exploring four key publishing sectors: professional reference, academic, education and consumer, this book explains the context for the digital developments in each area and looks at the growth of new business models and the future challenges faced by each

sector. It also addresses the key issues that face the industry as a whole, outlining current debates, such as pricing and copyright, and exploring their impact on the industry through relevant case studies. *The Business of Digital Publishing* is an invaluable resource for any publishing student looking for a starting point from which to explore the world of digital publishing.