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An Introduction to Economic Dynamics

Cambridge University Press This is an examples-driven treatment of introductory economic dynamics for students with a basic familiarity of spreadsheets. Shone approaches the subject with the belief that true understanding of a subject can only be achieved by students themselves setting out a problem and manipulating it experimentally. Although all economics students now have access to spreadsheets, they are often used for little more than graphing economic data. This book encourages students to go several stages further and set up and investigate simple dynamic models. A web-site for students and instructors is included that contains an additional 100 questions for students and 100 for instructors.

The Python Workbook

A Brief Introduction with Exercises and Solutions

Springer This student-friendly textbook encourages the development of programming skills through active practice by focusing on exercises that support hands-on learning. The Python Workbook provides a compendium of 186 exercises, spanning a variety of academic disciplines and everyday situations. Solutions to selected exercises are also provided, supported by brief annotations that explain the technique used to solve the problem, or highlight a specific point of Python syntax. This enhanced new edition has been thoroughly updated and expanded with additional exercises, along with concise introductions that outline the core concepts needed to solve them. The exercises and solutions require no prior background knowledge, beyond the material covered in a typical introductory Python programming course. Features: uses an accessible writing style and easy-to-follow structure; includes a mixture of classic exercises from the fields of computer science and mathematics, along with exercises that connect to other academic disciplines; presents the solutions to approximately half of the exercises; provides annotations alongside the solutions, which explain the approach taken to solve the problem and relevant aspects of Python syntax; offers a variety of exercises of different lengths and difficulties; contains exercises that encourage the development of programming skills using if statements, loops, basic functions, lists, dictionaries, files, and recursive functions. Undergraduate students enrolled in their first programming course and wishing to enhance their programming abilities will find the exercises and solutions provided in this book to be ideal for their needs.

Reinforcement Learning, second edition

An Introduction

MIT Press The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and

updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

Introduction to Statistics and Data Analysis

With Exercises, Solutions and Applications in R

Springer This introductory statistics textbook conveys the essential concepts and tools needed to develop and nurture statistical thinking. It presents descriptive, inductive and explorative statistical methods and guides the reader through the process of quantitative data analysis. In the experimental sciences and interdisciplinary research, data analysis has become an integral part of any scientific study. Issues such as judging the credibility of data, analyzing the data, evaluating the reliability of the obtained results and finally drawing the correct and appropriate conclusions from the results are vital. The text is primarily intended for undergraduate students in disciplines like business administration, the social sciences, medicine, politics, macroeconomics, etc. It features a wealth of examples, exercises and solutions with computer code in the statistical programming language R as well as supplementary material that will enable the reader to quickly adapt all methods to their own applications.

Introduction to Probability

CRC Press Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional application areas explored include genetics, medicine, computer science, and information theory. The print book version includes a code that provides free access to an

eBook version. The authors present the material in an accessible style and motivate concepts using real-world examples. Throughout, they use stories to uncover connections between the fundamental distributions in statistics and conditioning to reduce complicated problems to manageable pieces. The book includes many intuitive explanations, diagrams, and practice problems. Each chapter ends with a section showing how to perform relevant simulations and calculations in R, a free statistical software environment.

Linear Algebra: A Modern Introduction

Cengage Learning 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.

An Interactive Introduction to Mathematical Analysis Hardback with CD-ROM

Cambridge University Press This book provides a rigorous course in the calculus of functions of a real variable. Its gentle approach, particularly in its early chapters, makes it especially suitable for students who are not headed for graduate school but, for those who are, this book also provides the opportunity to engage in a penetrating study of real analysis.The companion onscreen version of this text contains hundreds of links to alternative approaches, more complete explanations and solutions to exercises; links that make it more friendly than any printed book could be. In addition, there are links to a wealth of optional material that an instructor can select for a more advanced course, and that students can use as a reference long after their first course has ended. The on-screen version also provides exercises that can be worked interactively with the help of the computer algebra systems that are bundled with Scientific Notebook.

An Introduction to Programming with Mathematica®

Springer Science & Business Media Accompanying the book, as with all TELOS sponsored publications, is an electronic component. In this case it is a DOS-Diskette produced by one of the coauthors, Paul Wellin. This diskette consists of Mathematica notebooks and packages which contain the codes for all examples and exercises in the book, as well as additional materials intended to extend many ideas covered in the text. It is of great value to teachers, students, and others using this book to learn how to effectively program with Mathematica .

Bayesian Data Analysis, Third Edition

CRC Press Now in its third edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems. Bayesian Data Analysis, Third Edition continues to take an applied approach to analysis using up-to-date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice. New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-avoiding priors Updated discussion of cross-validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo, variational Bayes, and expectation propagation New and revised software code The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's web page.

R for Data Science

Import, Tidy, Transform, Visualize, and Model Data

"O'Reilly Media, Inc." Learn how to use R to turn raw data into insight, knowledge, and understanding. This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience, R for Data Science is designed to get you doing data science as quickly as possible. Authors Hadley Wickham and Garrett Grolemund guide you through the steps of importing, wrangling, exploring, and modeling your data and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Each section of the book is paired with exercises to help you practice what you've learned along the way. You'll learn how to: Wrangle—transform your datasets into a form convenient for analysis Program—learn powerful R tools for solving data problems with greater clarity and ease Explore—examine your data, generate hypotheses, and quickly test them Model—provide a low-dimensional summary that captures true "signals" in your dataset Communicate—learn R Markdown for integrating prose, code, and results

Introduction to Partial Differential Equations

A Computational Approach

Springer Science & Business Media Combining both the classical theory and numerical techniques for partial differential equations, this thoroughly modern approach shows the significance of computations in PDEs and illustrates the strong interaction between mathematical theory and the development of numerical methods. Great care has been taken throughout the book to seek a sound balance between these techniques. The authors present the material at an easy pace and exercises ranging from the straightforward to the challenging have been included. In addition there are some "projects" suggested, either to refresh the students memory of results needed in this course, or to extend the theories developed in the text. Suitable for undergraduate and graduate students in mathematics and engineering.

Digital Circuit Analysis and Design with Simulink Modeling and Introduction to CPLDs and FPGAs

Orchard Publications This text includes the following chapters and appendices: Common Number Systems and Conversions Operations in Binary, Octal, and Hexadecimal Systems Sign Magnitude and Floating Point Arithmetic Binary Codes Fundamentals of Boolean Algebra Minterms and Maxterms Combinational Logic Circuits Sequential Logic Circuits Memory Devices Advanced Arithmetic and Logic Operations Introduction to Field Programmable Devices Introduction to the ABEL Hardware Description Language Introduction to VHDL Introduction to Verilog Introduction to Boundary-Scan Architecture. Each chapter contains numerous practical applications. This is a design-oriented text.

Introduction to Statistics and Data Analysis

Cengage Learning INTRODUCTION TO STATISTICS AND DATA ANALYSIS, 4th Edition, introduces you to the study of statistics and data analysis by using real data and attention-grabbing examples. The authors guide you through an intuition-based learning process that stresses interpretation and communication of statistical information. Simple notation--including the frequent substitution of words for symbols--helps you grasp concepts and cement your comprehension. You'll also find coverage of the graphing calculator as a problem-solving tool, plus hands-on activities in each chapter that allow you to practice statistics firsthand. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

ArchiMate® 3 Foundation and Practitioner (Level 1 & 2) Courseware

Van Haren This material cannot be ordered without an exam or usage of a trainer. This Courseware package can only be ordered by Partners. The Courseware consist out of ArchiMate® 3 Foundation and Practitioner (Level 1 & 2) (ISBN978 94 018 0217 8) This courseware is based on ArchiMate 3.0. The ArchiMate Specification is a modeling language that enables Enterprise Architects to

describe, analyze and visualize relationships among architecture domains using easy to understand visuals representations. It provides a common language for describing how various parts of the enterprise are constructed and how they operate, including business processes, organizational structures, information flows, IT systems, and technical and physical infrastructures. In a time when many enterprises are undergoing rapid change, ArchiMate models help stakeholders design, assess and communicate those changes within and between architecture domains, as well as examine the potential consequences and impact of decisions throughout an organization. A training in ArchiMate will give you knowledge about theoretical and practical aspects of ArchiMate and is useful if you wish to be able to apply this modelling language in practice. The purchase of the exam related to this ArchiMate® courseware is mandatory when purchasing this ArchiMate® courseware. Exam information: When registered for a ArchiMate® course, the exam/certification voucher will be included in the training fee. This only applies to courses offered by Van Haren Publishing or its affiliates.

An Introduction to Mathematical Reasoning

Numbers, Sets and Functions

Cambridge University Press This book eases students into the rigors of university mathematics. The emphasis is on understanding and constructing proofs and writing clear mathematics. The author achieves this by exploring set theory, combinatorics, and number theory, topics that include many fundamental ideas and may not be a part of a young mathematician's toolkit. This material illustrates how familiar ideas can be formulated rigorously, provides examples demonstrating a wide range of basic methods of proof, and includes some of the all-time-great classic proofs. The book presents mathematics as a continually developing subject. Material meeting the needs of readers from a wide range of backgrounds is included. The over 250 problems include questions to interest and challenge the most able student but also plenty of routine exercises to help familiarize the reader with the basic ideas.

Introduction to Exercise Physiology

Jones & Bartlett Publishers Introduction to Exercise Physiology, identifies the key scientific content that is critically important to the successful practice of exercise physiology. This text focuses on the profession of exercise physiology by introducing students to the scientific basis for the practice of exercise physiology to prevent or control mind-body diseases, promote health and well-being, and

enhance athlete performance. The goal of this text is to embrace a new paradigm of exercise physiology as a comprehensive healthcare profession and not as a one-course experience. Introduction to Exercise Physiology is endorsed by The American Society of Exercise Physiologists (ASEP) a national non-profit professional organization committed to the advancement of exercise physiologists. The text emphasizes sound scientific content that will help exercise physiologists design appropriate exercise prescription that focuses on the public health challenges of a sedentary lifestyle. Students will learn the necessary physiologic, electrocardiographic, biomechanic, and anatomic concepts pertinent to prepare for and pass the ASEP Board Certification exam. In addition, the text enables students to understand the ethics of sports nutrition and athletic performance, by examining exercise metabolism, fuel utilization, and cardiovascular functions and adaptations from a non-performance enhancing supplement perspective. Specific physiologic calculations are presented to teach students how to monitor exercise intensity, as well as to improve the safety and credibility of client-specific test protocols, health and fitness training programs, and athletic competitions. To support the "exercise as medicine" approach of the text it is organized into seven major areas: Part I Scientific Aspects of Exercise Physiology Part II Training the Cardiorespiratory and Muscular Systems Part III Training and Performance Part IV Exercise Is Medicine Part V Exercise Biomechanics Part VI Anatomy of Sports and Exercise Part VII The Profession of Exercise Physiology

Introductory Topology

Exercises and Solutions

World Scientific Publishing Company The book offers a good introduction to topology through solved exercises. It is mainly intended for undergraduate students. Most exercises are given with detailed solutions.

Solutions of Exercises in "An Introduction to Dynamics of Colloids"

Forschungszentrum Jülich

Introduction to Business Statistics

Cengage Learning Highly praised for its exceptional clarity, technical accuracy, and useful examples, Weiers' INTRODUCTION TO BUSINESS STATISTICS, Seventh Edition, introduces fundamental statistical concepts with an engaging, conversational presentation and a strong emphasis on the practical relevance of course material to students' lives and careers. The text's outstanding illustrations, friendly language, non-technical terminology, and current examples involving real-world business and personal settings will capture students' interest and prepare them for success from day one. Continuing cases, contemporary business applications, and more than 300 new or revised exercises and problems reflect important trends and the latest developments in today's dynamic business environment -- all with an accuracy you and your students can trust. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introduction to Algebra

Oxford University Press on Demand This Second Edition of a classic algebra text includes updated and comprehensive introductory chapters,new material on axiom of Choice, p-groups and local rings, discussion of theory and applications, and over 300 exercises. It is an ideal introductory text for all Year 1 and 2 undergraduate students in mathematics.

Introduction To Algorithms

MIT Press The first edition won the award for Best 1990 Professional and Scholarly Book in Computer Science and Data Processing by the Association of American Publishers. There are books on algorithms that are rigorous but incomplete and others that cover masses of material but lack rigor. Introduction to Algorithms combines rigor and comprehensiveness. The book covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers. Each chapter is relatively self-contained and can be used as a unit of study. The algorithms are described in English and in a pseudocode designed to be readable by anyone who has done a little programming. The explanations have been kept elementary without sacrificing depth of coverage or mathematical rigor. The first edition became the standard reference for professionals and a widely used text in universities worldwide. The second edition features new chapters on the role of algorithms, probabilistic analysis and randomized algorithms, and linear programming, as well as extensive revisions to virtually every section of the book. In a subtle but important change, loop invariants

are introduced early and used throughout the text to prove algorithm correctness. Without changing the mathematical and analytic focus, the authors have moved much of the mathematical foundations material from Part I to an appendix and have included additional motivational material at the beginning.

Statistics of Financial Markets

Exercises and Solutions

Springer Science & Business Media Practice makes perfect. Therefore the best method of mastering models is working with them. In this book we present a collection of exercises and solutions which can be helpful in the comprehension of Statistics of Financial Markets. The exercises illustrate the theory by discussing practical examples in detail. We provide computational solutions for the problems, which are all calculated using R and Matlab. The corresponding Quantlets - a name we give to these program codes - are provided in this book. They follow the name scheme SFSxyz123 and can be downloaded from the Springer homepage. We have sought to strike a balance between theoretical presentation and practical challenges. The book is divided into three main parts, in which we discuss option pricing, time series analysis and advanced quantitative statistical techniques in finance.

Modern General Relativity

Black Holes, Gravitational Waves, and Cosmology

Cambridge University Press Introduces the physics of general relativity in relation to modern topics such as gamma-ray bursts, black holes, and gravitational waves.

Engineering Graphics Essentials With Autocad 2011

Instruction

SDC Publications Engineering Graphics Essentials with AutoCAD 2011 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner. It coves the main topics of engineering graphics, including tolerancing and fasteners while also teaching them the fundamentals of AutoCAD 2011.This book features an independent learning CD containing supplemental content to further reinforce these principles. Through its many different exercises this text is designed to encourage students to interact with the instructor during lectures, and it will give students a superior understanding of engineering graphics and AutoCAD. The enclosed independent learning CD allows the learner to go through the topics of the book independently. The main content of the CD contains pages that summarize the topics covered in the book. Each page has voice over content that simulates a lecture environment. There are also interactive examples that allow the learner to go through the instructor led and in class student exercises found in the book on their own. Video examples are also included to supplement the learning process.

An Introduction to Programming with C++

Cengage Learning Discover the importance of learning C++ with Diane Zak's popular AN INTRODUCTION TO PROGRAMMING WITH C++, 8E. This book's distinctive emphasis clarifies how mastering C++ programming skills will benefit you now and throughout your career. This unique text incorporates a student-focused approach that continually highlights the importance and relevance of the programming concepts you are learning. Memorable new examples portray concepts in action, while abundant new hands-on exercises, including mini-quizzes, Labs, and Try This features, guide you in absorbing, practicing, and applying concepts as you progress. Trust AN INTRODUCTION TO PROGRAMMING WITH C++, 8E to keep you enthusiastic about learning as you master the skills of C++. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introduction to Classical Mechanics

With Problems and Solutions

Cambridge University Press This textbook covers all the standard introductory topics in classical mechanics, including Newton's laws, oscillations, energy, momentum, angular momentum, planetary motion, and special relativity. It also explores more advanced topics, such as normal modes, the Lagrangian method, gyroscopic motion, fictitious forces, 4-vectors, and general relativity. It contains more than 250 problems with detailed solutions so students can easily check their understanding of the topic. There are also over 350 unworked exercises which are ideal for homework assignments. Password protected solutions are available to instructors at www.cambridge.org/9780521876223. The vast number of problems alone makes it an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics. Remarks are scattered throughout the text, discussing issues that are often glossed over in other textbooks, and it is thoroughly illustrated with more than 600 figures to help demonstrate key concepts.

An Introduction to Financial Option Valuation

Mathematics, Stochastics and Computation

Cambridge University Press This book is intended for use in a rigorous introductory PhD level course in econometrics, or in a field course in econometric theory. It covers the measure-theoretical foundation of probability theory, the multivariate normal distribution with its application to classical linear regression analysis, various laws of large numbers, central limit theorems and related results for independent random variables as well as for stationary time series, with applications to asymptotic inference of M-estimators, and maximum likelihood theory. Some chapters have their own appendices containing the more advanced topics and/or difficult proofs. Moreover, there are three appendices with material that is supposed to be known. Appendix I contains a comprehensive review of linear algebra, including all the proofs. Appendix II reviews a variety of mathematical topics and concepts that are used throughout the main text, and Appendix III reviews complex analysis. Therefore, this book is uniquely self-contained.

Python 101: Python Basics for Beginners

A Practical Introduction to Python 3 for Beginners

Digital Academy Python Basics: A Practical Introduction to Python 3 Your Complete Python Curriculum — With Exercises, Interactive Quizzes, and Sample Projects. Hello and welcome to Python 101: A Practical Introduction to Python 3 for Beginners. Are you ready to learn Why so many professional and hobbyist developers are drawn to Python - and How you can begin using it on your own projects, too?! This book is targeted at beginners who either know a little programming but not the Python language and its ecosystem, as well as complete beginners. If you don't have a Computer Science degree, don't worry. I will guide you through the important computing concepts while teaching you the Python basics. --- What should you learn about Python in the beginning to get a strong foundation? With Python 101, you will NOT only cover the core concepts you really need to know, but you will also learn them in the most efficient order - with the help of a few quizzes, practical exercises and projects. You will know enough to be good with Python, pretty fast! Who Should Read This Book? If you are new to Python, you'll get a practical, step-by-step roadmap on developing your foundational skills. You'll be introduced to each concept and language feature in a logical order. Every step in this curriculum is explained and illustrated with short and clear code samples. My goal with this book is to educate you, not to impress or intimidate. If you are familiar with some basic programming concepts, you will get a clear and well-tested introduction to Python. This is a practical introduction to Python that jumps right into real-world examples If you have any prior experience with languages like VBA, PowerShell, R, Perl, C, C++, C#, Java or Swift, the numerous exercises within each chapter will fast-track your progress. If you're a seasoned developer, you'll get a Python 3 crash course that brings you up to speed with modern Python programming. Mix and match the chapters that interest you the most and use the interactive quizzes and review exercises to check your learning progress as you go along. If you're a self-starter completely new to coding, you'll get practical and motivating examples. You'll begin by installing Python and setting up a coding environment on your computer from scratch, and then continue from there. We'll get you coding right away so that you become competent and knowledgeable enough to solve real-world problems, fast. Develop a passion for programming by solving interesting problems with Python every day! If you're looking to break into a coding or data-science career, you'll pick up the practical foundations with this book. We won't just dump a boat load of theoretical information on you so you can "sink or swim" — instead, you'll learn from hands-on, practical examples one step at a time. Each concept is broken down for you so you'll always know what you can do with it in practical terms. If you're interested in teaching others "how to Python", this will be your guidebook. If you're

looking to stoke the coding flame in your coworkers, kids, or relatives — use our material to teach them. All the sequencing has been done for you so you'll always know what to cover next and how to explain it.

An Introduction to Order Statistics

Springer Science & Business Media This book presents the theory of order statistics in a way, such that beginners can get easily acquainted with the very basis of the theory without having to work through heavily involved techniques. At the same time more experienced readers can check their level of understanding and polish their knowledge with certain details. This is achieved by, on the one hand, stating the basic formulae and providing many useful examples to illustrate the theoretical statements, while on the other hand an upgraded list of references will make it easier to gain insight into more specialized results. Thus this book is suitable for a readership working in statistics, actuarial mathematics, reliability engineering, meteorology, hydrology, business economics, sports analysis and many more.

watermaths

process fundamentals for the design and operation of water and wastewater treatment technologies - third edition

IWA Publishing Watermaths presents the mathematics underpinning the design and operation of the individual unit process technologies used for purifying water and wastewater. The book aims to provide the reader with sufficient information to enable them to tackle the most important calculations in this area, without requiring any prior knowledge of the subject and assuming only a very basic grounding in science or engineering. It focuses on the most essential areas of knowledge required, containing tuition in basic numeracy, chemistry, process engineering and fluid physics, as well as cost analysis. The simple and succinct delivery is designed to get the reader up to speed as rapidly as possible: sufficient background information is provided to explain the purpose of the calculations, and ultimately tackle the complete wastewater reclamation plant design problem included in the book. Example

calculations are provided within each chapter, each followed by exercises intended to reinforce the learning (and for which solutions are appended). Exercises range in difficulty from simple single calculational-step problems to more complex ones, and the over-arching design problem provides some context to the mathematics. The book can be understood by those relatively new to the water sector, and is intended as a primer rather than a comprehensive handbook. It is nonetheless sufficiently comprehensive to permit design calculations for most water and wastewater treatment unit processes. Core disciplines covered include: • manipulation of equations, including logarithmic and exponential expressions • fluid physics for describing flow through pipes, channels and filters • chemical concentrations and chemical/biochemical reactions • chemical/biochemical reaction kinetics • mass balance for determining fate of materials through unit processes • mass transfer for determining transfer of materials across boundaries within processes • reactor theory for designing biochemical and chemical reaction vessels • cost analysis, including capital and operating expenditure with discounting. New to the third edition: • new chapter on cost analysis • further explanation of the classical unit operations types • illustrations expanded to include unit operation schematics and symbols • new examples and exercises • updated design problem. Watermaths ... just add water.

Introduction to Evolutionary Computing

Springer Science & Business Media The first complete overview of evolutionary computing, the collective name for a range of problem-solving techniques based on principles of biological evolution, such as natural selection and genetic inheritance. The text is aimed directly at lecturers and graduate and undergraduate students. It is also meant for those who wish to apply evolutionary computing to a particular problem or within a given application area. The book contains quick-reference information on the current state-of-the-art in a wide range of related topics, so it is of interest not just to evolutionary computing specialists but to researchers working in other fields.

Engineering Graphics Essentials

Text and Independent Learning Dvd

SDC Publications Engineering Graphics Essentials Fourth Edition gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner. It coves the main topics of engineering

graphics, including tolerancing and fasteners. This book also features an independent learning DVD containing supplemental content to further reinforce these principles. Through its many different exercises this text is designed to encourage students to interact with the instructor during lectures, and it will give students a superior understanding of engineering graphics. The enclosed independent learning DVD allows the learner to go through the topics of the book independently. The main content of the DVD contains pages that summarize the topics covered in the book. Each page has voice over content that simulates a lecture environment. There are also interactive examples that allow the learner to go through the instructor led and in class student exercises found in the book on their own. Video examples are also included to supplement the learning process. DVD Content: Summary pages with voice over lecture content Interactive exercises Video examples Supplemental problem solutions

Acrobat 6 and PDF Solutions

*Sybex "If Taz writes a book, I can tell you this--I WANT IT!" Scott Kelby, President, National Association of Photoshop Professionals (NAPP) With Acrobat 6, Adobe has delivered a vastly improved product that streamlines and fortifies document exchange using PDF. Rich with sophisticated new features and an enhanced interface, Acrobat 6 gives business, creative, engineering, and now prepress professionals greater control over high-quality document exchange and review. Acrobat 6 and PDF Solutions offers expert instruction on putting this complex tool to good use. With his characteristic enthusiasm, acclaimed instructor and author Taz Tally introduces you to key features and techniques, then leads you through real-world tutorials that reinforce the material. In addition to a complete tour of Acrobat 6, you get an in-depth guide to creating PDF documents and working with Distiller and other PDF creation workflows. Productivity tips and automations throughout help you work faster and more accurately. Inside, you'll discover the ins and outs of Acrobat Standard and Professional versions, including how to: * Implement an effective PDF workflow * Create catalogs, e-books, multimedia presentations, and web pages from your documents * Build PDF order forms with specially formatted data-entry fields * Set up collaborative review of documents * Control access to and use of your PDFs * Edit text and graphics in PDF files * Use PDFs and Acrobat with Photoshop * Control import and export of PDF contents * Run preflight and on-screen proofing on PDFs * And more!*

Game Theory

An Introduction

Princeton University Press The definitive introduction to game theory This comprehensive textbook introduces readers to the principal ideas and applications of game theory, in a style that combines rigor with accessibility. Steven Tadelis begins with a concise description of rational decision making, and goes on to discuss strategic and extensive form games with complete information, Bayesian games, and extensive form games with imperfect information. He covers a host of topics, including multistage and repeated games, bargaining theory, auctions, rent-seeking games, mechanism design, signaling games, reputation building, and information transmission games. Unlike other books on game theory, this one begins with the idea of rationality and explores its implications for multiperson decision problems through concepts like dominated strategies and rationalizability. Only then does it present the subject of Nash equilibrium and its derivatives. Game Theory is the ideal textbook for advanced undergraduate and beginning graduate students. Throughout, concepts and methods are explained using real-world examples backed by precise analytic material. The book features many important applications to economics and political science, as well as numerous exercises that focus on how to formalize informal situations and then analyze them. Introduces the core ideas and applications of game theory Covers static and dynamic games, with complete and incomplete information Features a variety of examples, applications, and exercises Topics include repeated games, bargaining, auctions, signaling, reputation, and information transmission Ideal for advanced undergraduate and beginning graduate students Complete solutions available to teachers and selected solutions available to students

Introduction to Analytic Number Theory

Springer Science & Business Media "This book is the first volume of a two-volume textbook for undergraduates and is indeed the crystallization of a course offered by the author at the California Institute of Technology to undergraduates without any previous knowledge of number theory. For this reason, the book starts with the most elementary properties of the natural integers. Nevertheless, the text succeeds in presenting an enormous amount of material in little more than 300 pages."-—MATHEMATICAL REVIEWS

Python Crash Course, 2nd Edition

A Hands-On, Project-Based Introduction to Programming

No Starch Press The best-selling Python book in the world, with over 1 million copies sold! A fast-paced, no-nonsense, updated guide to programming in Python. If you've been thinking about learning how to code or picking up Python, this internationally bestselling guide to the most popular programming language is your quickest, easiest way to get started and go! Even if you have no experience whatsoever, Python Crash Course, 2nd Edition, will have you writing programs, solving problems, building computer games, and creating data visualizations in no time. You'll begin with basic concepts like variables, lists, classes, and loops—with the help of fun skill-strengthening exercises for every topic—then move on to making interactive programs and best practices for testing your code. Later chapters put your new knowledge into play with three cool projects: a 2D Space Invaders-style arcade game, a set of responsive data visualizations you'll build with Python's handy libraries (Pygame, Matplotlib, Plotly, Django), and a customized web app you can deploy online. Why wait any longer? Start your engine and code!

Engineering Graphics Essentials with AutoCAD 2014 Instruction

SDC Publications Engineering Graphics Essentials with AutoCAD 2014 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner. It covers the main topics of engineering graphics, including tolerancing and fasteners while also teaching them the fundamentals of AutoCAD 2014. This book features an independent learning disc containing supplemental content to further reinforce these principles. Through its many different exercises this text is designed to encourage students to interact with the instructor during lectures, and it will give students a superior understanding of engineering graphics and AutoCAD. The enclosed independent learning disc allows the learner to go through the topics of the book independently. The main content of the disc contains pages that summarize the topics covered in the book. Each page has voice over content that simulates a lecture environment. There are also interactive examples that allow the learner to go through the instructor led and in-class student exercises found in the book on their own. Video examples are also

included to supplement the learning process.

Solution Focused Coaching in Practice

Routledge Solution Focused Coaching in Practice is a practical 'how-to' guide that provides an invaluable overview of Solution Focused Coaching skills and techniques. Reflecting upon published research on the solution focused approach, Bill O'Connell, Stephen Palmer and Helen Williams bring their own experiences of Solution Focused Coaching together with others in the field to cover topics such as: the coach-coachee relationship the role of technology in coaching inclusive coaching group and team coaching practical issues and skills. Incorporating coachee case studies, worksheets, practice tips and discussion points, the skills, strategies and techniques in this book are straightforward to apply and can be used in most coaching settings. This practical book is essential reading for experienced personal or executive coaches, managers considering introducing a new and better coaching culture for their staff, and for those just starting out on their coaching journey.

Lecture Notes on Functional Analysis

With Applications to Linear Partial Differential Equations

American Mathematical Soc. This textbook is addressed to graduate students in mathematics or other disciplines who wish to understand the essential concepts of functional analysis and their applications to partial differential equations. The book is intentionally concise, presenting all the fundamental concepts and results but omitting the more specialized topics. Enough of the theory of Sobolev spaces and semigroups of linear operators is included as needed to develop significant applications to elliptic, parabolic, and hyperbolic PDEs. Throughout the book, care has been taken to explain the connections between theorems in functional analysis and familiar results of finite-dimensional linear algebra. The main concepts and ideas used in the proofs are illustrated with a large number of figures. A rich collection of homework problems is included at the end of most chapters. The book is suitable as a text for a one-semester graduate course.

Accounting

Tools for Business Decision Making

John Wiley & Sons Offering a unique approach in the field, this book presents the principles of accounting from a corporate perspective. This provides readers with a real-world understanding of the concepts.