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Python Crash Course-Eric Matthes 2015-11-01 Python Crash Course is a fast-paced, thorough introduction to Python that will have you writing programs, solving problems, and making things that work in no time. In the first half of the book, you'll learn about basic programming concepts, such as lists, dictionaries, classes, and loops, and practice writing clean and readable code with exercises for each topic. You'll also learn how to make your programs interactive and how to test your code safely before adding it to a project. In the second half of the book, you'll put your new knowledge into practice with three substantial projects: a Space Invaders–inspired arcade game, data visualizations with Python's super-handy libraries, and a simple web app you can deploy online. As you work through Python Crash Course you'll learn how to: –Use powerful Python libraries and tools, including matplotlib, NumPy, and Pygal –Make 2D games that respond to keypresses and mouse clicks, and that grow more difficult as the game progresses –Work with data to generate interactive visualizations –Create and customize Web apps and deploy them safely online –Deal with mistakes and errors so you can solve your own programming problems If you've been thinking seriously about digging into programming, Python Crash Course will get you up to speed and have you writing real programs fast. Why wait any longer? Start your engines and code! Uses Python 2 and 3

R for Data Science-Hadley Wickham 2016-12-12 "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"--

Introduction To Algorithms-Thomas H.. Cormen 2001 An extensively revised edition of a mathematically rigorous yet accessible introduction to algorithms.

An Introduction to Statistical Learning-Gareth James 2013-06-24 An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. Two of the authors co-wrote The Elements of Statistical Learning (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text assumes only a previous course in linear regression and no knowledge of matrix algebra.

Turbulent Flows-S. B. Pope 2000-08-10 Publisher Description

Financial Management [Revised Edition]-John Smeur 2019-08-05 This book introduces key concepts and methods in business financial management. It consists of two parts. Part one is structured around start-up investments and key financing decisions facing entrepreneurs during their first year in business. The instruments examined include the investment budget, financing plan, the opening balance sheet, financial planning for profits and liquidity, the closing balance sheet and a complete treatment of ratio analysis. Part two is about cost prices, budgeting and variance analysis, profit calculation methods and break-even point and, finally, calculations of the returns to alternative investment options. All of these subjects are treated in an accessible, stepwise manner and are accompanied with illuminating examples. The combination of theoretical rigor and simple explanations makes the present volume indispensable for both students and entrepreneurs.

Facilities Design-Sunderesh S. Heragu 2006 "Facilities Design" covers modeling and analysis of the design, layout and location of facilities. It also covers design and analysis of materials handling.

Phase Diagrams and Thermodynamic Modeling of Solutions-Arthur D. Pelton 2018-09-19 Phase Diagrams and Thermodynamic Modeling of Solutions provides readers with an understanding of thermodynamics and phase equilibria that is required to make full and efficient use of these tools. The book systematically discusses phase diagrams of all types, the thermodynamics behind them, their calculations from thermodynamic databases, and the structural models of solutions used in the development of these databases. Featuring examples from a wide range of systems including metals, salts, ceramics, refractories, and concentrated aqueous solutions, Phase Diagrams and Thermodynamic Modeling of Solutions is a vital resource for researchers and developers in materials science, metallurgy, combustion and energy, corrosion engineering, environmental engineering, geology, glass technology, nuclear engineering, and other fields of inorganic chemical and materials science and engineering. Additionally, experts involved in developing thermodynamic databases will find a comprehensive reference text of current solution models. Presents a rigorous and complete development of thermodynamics for readers who already have a basic understanding of chemical thermodynamics Provides an in-depth understanding of phase equilibria Includes information that can be used as a text for graduate courses on thermodynamics and phase diagrams, or on solution modeling Covers several types of phase diagrams (paraequilibrium, solidus projections, first-melting projections, Scheil diagrams, enthalpy diagrams), and more

NCERT Solutions for Class 9 Social Science (Political Science) Chapter 5 Democratic Rights-Bright Tutee 2020-06-19 The chapter-wise NCERT solutions prove very beneficial in understanding a chapter and also in scoring marks in internal and final exams. 'Democratic Rights' is the twenty first chapter in class 9th Social Science. Our teachers have explained every exercise and every question of chapter 21th 'Democratic Rights' in detail and easy to understand language. You can get access to these solutions in Ebook. Download 'Political Science Chapter 5– Democratic Rights' chapter-wise NCERT Solutions now! These NCERT solutions are comprehensive which helps you greatly in your homework and exam preparations. so you need not purchase any guide book or any other study material. Now, you can study better with our NCERT chapter-wise solutions of Social Science. You just have to download these solutions to master the twenty first chapter of class 9th Social Science.

Understanding Analysis-Stephen Abbott 2012-12-06 This elementary presentation exposes readers to both the process of rigor and the rewards inherent in taking an axiomatic approach to the study of functions of a real variable. The aim is to challenge and improve mathematical intuition rather than to verify it. The philosophy of this book is to focus attention on questions which give analysis its inherent fascination. Each chapter begins with the discussion of some motivating examples and concludes with a series of questions.

Bayesian Data Analysis, Third Edition-Andrew Gelman 2013-11-01 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.

Quantitative Methods for Quality Management-Alessandro Brun 2020-09-16 This book is intended to offer a theoretical support and a practical guide to understand and use a wide set of quantitative tools for Quality Management. The most common tools and methods are first explained and then applied in industrial examples: Basic Statistics, Graphical Approach, Pareto, Hypothesis Testing, ANOVA, DoE, Control Chart, Acceptance Sampling are some of the covered topics. The goal of this book is to provide the readers both with theory recall and examples of application to understand the approach and master the application. Thus the book is projected to be a useful resource for both students and practitioners in manufacturing and service operations. Students will find the ideal support and guidance for getting confident with the subject, while practitioners will be provided with theoretical and practical insights to deeply understand the ground on which most of commonly used quality tools are built on. The book will explain the topics starting from the easiest-to-understand, gradually increasing the level of complexity in the tools and in the numerical examples. This third edition of the book has widened the theory support and re-organized the topics. This new organization will both support a deeper understanding of the statistical basics and facilitate the mastering of the more complex quality tools.

Python for Software Design-Allen B. Downey 2009-03-09 A no-nonsense introduction to software design using the Python programming language. Written for people with no programming experience, this book starts with the most basic concepts and gradually adds new material. Some of the ideas students find most challenging, like recursion and object-oriented programming, are divided into a sequence of smaller steps and introduced over the course of several chapters. The focus is on the programming process, with special emphasis on debugging. The book includes a wide range of exercises, from short examples to substantial projects, so that students have ample opportunity to practise each new concept. Exercise solutions and code examples are available from thinkpython.com, along with Swampy, a suite of Python programs that is used in some of the exercises.

Principles and Techniques in Combinatorics-Lin Simon Mingyan 2018-08-10 The solutions to each problem are written from a first principles approach, which would further augment the understanding of the important and recurring concepts in each chapter. Moreover, the solutions are written in a relatively self-contained manner, with very little knowledge of undergraduate mathematics assumed. In that regard, the solutions manual appeals to a wide range of readers, from secondary school and junior college students, undergraduates, to teachers and professors.

Complex and Adaptive Dynamical Systems-Claudius Gros 2010-09-24 Discover a wide range of findings in quantitative complex system science that help us make sense of our complex world. Written at an introductory level, the book provides an accessible entry into this fascinating and vitally important subject.

Signals and Systems with MATLAB Applications-Steven T. Karris 2003 This text contains a comprehensive discussion of continuous and discrete time signals and systems with many examples from MATLAB--software used to write efficient, compact programs to solve electrical and computer engineering problems of varying complexity. Intended for junior- and senior-level electrical engineering students and for self-study by working professionals, it discusses Laplace transformation and circuit analysis, impulse response, Fourier series, Z transform, and the Discrete Fourier transform and FFT. Solutions to all exercises are included in this revised edition.

Computational Physics-Mark E. J. Newman 2012 This book explains the fundamentals of computational physics and describes the techniques that every physicist should know, such as finite difference methods, numerical quadrature, and the fast Fourier transform. The book offers a complete introduction to the topic at the undergraduate level, and is also suitable for the advanced student or researcher. The book begins with an introduction to Python, then moves on to a step-by-step description of the techniques of computational physics, with examples ranging from simple mechanics problems to complex calculations in quantum mechanics, electromagnetism, statistical mechanics, and more.

An Introduction to the Mathematics of Finance-Stephen Garrett 2013-05-28 An Introduction to the Mathematics of Finance: A Deterministic Approach, 2e, offers a highly illustrated introduction to mathematical finance, with a special emphasis on interest rates. This revision of the McCutcheon-Scott classic follows the core subjects covered by the first professional exam required of UK actuaries, the CT1 exam. It realigns the table of contents with the CT1 exam and includes sample questions from past exams of both The Actuarial Profession and the CFA Institute. With a wealth of solved problems and interesting applications, An Introduction to the Mathematics of Finance stands alone in its ability to address the needs of its primary target audience, the actuarial student. Closely follows the syllabus for the CT1 exam of The Institute and Faculty of Actuaries Features new content and more examples Online supplements available: http://booksite.elsevier.com/9780080982403/ Includes past exam questions from The Institute and Faculty of Actuaries and the CFA Institute

Mathematical Statistics with Applications-Dennis Wackerly 2014-10-27 In their bestselling MATHEMATICAL STATISTICS WITH APPLICATIONS, premiere authors Dennis Wackerly, William Mendenhall, and Richard L. Scheaffer present a solid foundation in statistical theory while conveying the relevance and importance of the theory in solving practical problems in the real world. The authors' use of practical applications and excellent exercises helps students discover the nature of statistics and understand its essential role in scientific research. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Circuit Analysis II-Steven T. Karris 2003 Intermediate level electrical engineering text

Abstract Algebra, 2Nd Ed-David S. Dummit 2008-07-28 · Group Theory · Ring Theory · Modules and Vector Spaces · Field Theory and Galois Theory · An Introduction to Commutative Rings, Algebraic Geometry, and Homological Algebra· Introduction to the Representation Theory of Finite Groups

Database Systems-Hector Garcia-Molina 2011-11-21 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Database Systems: The Complete Book is ideal for Database Systems and Database Design and Application courses offered at the junior, senior and graduate levels in Computer Science departments. A basic understanding of algebraic expressions and laws, logic, basic data structure, OOP concepts, and programming environments is implied. Written by well-known computer scientists, this introduction to database systems offers a comprehensive approach, focusing on database design, database use, and implementation of database applications and database management systems. The first half of the book provides in-depth coverage of databases from the point of view of the database designer, user, and application programmer. It covers the latest database standards SQL:1999, SQL/PSM, SQL/CLI, JDBC, ODL, and XML, with broader coverage of SQL than most other texts. The second half of the book provides in-depth coverage of databases from the point of view of the DBMS implementor. It focuses on storage structures, query processing, and transaction management. The book covers the main techniques in these areas with broader coverage of query optimization than most other texts, along with advanced topics including multidimensional and bitmap indexes, distributed transactions, and information integration techniques.

Sensors and Transducers-M. J. Usher 1985

Information Theory for Information Technologists-M. J. Usher 1984

Probability-Jim Pitman 2012-12-06 This is a text for a one-quarter or one-semester course in probability, aimed at students who have done a year of calculus. The book is organised so a student can learn the fundamental ideas of probability from the first three chapters without reliance on calculus. Later chapters develop these ideas further using calculus tools. The book contains more than the usual number of examples worked out in detail. The most valuable thing for students to learn from a course like this is how to pick up a probability problem in a new setting and relate it to the standard body of theory. The more they see this happen in class, and the more they do it themselves in exercises, the better. The style of the text is deliberately informal. My experience is that students learn more from intuitive explanations, diagrams, and examples than they do from theorems and proofs. So the emphasis is on problem solving rather than theory.

Introduction to Programming with C++-Y. Daniel Liang 2014 NOTE: You are purchasing a standalone product; MyProgrammingLab does not come packaged with this content. If you would like to purchase both the physical text and MyProgrammingLab search for ISBN-10: 0133377474 /ISBN-13: 9780133377477 . That package includes ISBN-10: 0133252817 /ISBN-13: 9780133252811 and ISBN-10: 013337968X /ISBN-13: 9780133379686 . MyProgrammingLab should only be purchased when required by an instructor . For undergraduate students in Computer Science and Computer Programming courses or beginning programmers A solid foundation in the basics of C++ programming will allow readers to create efficient, elegant code ready for any production environment Learning basic logic and fundamental programming techniques is essential for new programmers to succeed. A distinctive fundamentals-first approach and clear, concise writing style characterize Introduction to Programming with C++, 3/e. Basic programming concepts are introduced on control statements, loops, functions, and arrays before object-oriented programming is discussed. Abstract concepts are carefully and concretely explained using simple, short, and stimulating examples. Explanations are presented in brief segments, with many figures and tables. NEW! This edition is available with MyProgrammingLab, an innovative online homework and assessment tool. Through the power of practice and immediate personalized feedback, MyProgrammingLab helps students fully grasp the logic, semantics, and syntax of programming.

Essentials of Marketing Research: Exercises-

Statistical Methods, Students Solutions Manual (e-only)-Rudolf J. Freund 2010-08-15 Statistical Methods, Students Solutions Manual (e-only)

Book of Proof-Richard H. Hammack 2016-01-01 This book is an introduction to the language and standard proof methods of mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity.

Maple® for Environmental Sciences-Bill Scott 2012-12-06 A presentation of what Maple can do and how it does it in the context of environmental sciences. The text includes introductory tutorials in each chapter combined with extensive marginal comments which are followed by a complete application. These include the contouring of water table data, the physical chemistry of kidney stones, and acid rain. The book also provides a special application to enable students to use "self help" in the case that Maple seem unable to do the simplest things.

C P+ S P+ S Primer-Stanley B. Lippman 1991 This new edition reflects C++ in its latest release, 3.0 ... and its new addition the template facility. Highlights include object-oriented design; exception handling; and the difference between Release 2.0 and 3.0.

Solutions Manual to Accompany Inorganic Chemistry 7th Edition-Alen Hadzovic 2018 As you master each chapter in Inorganic Chemistry, having detailed solutions handy allows you to confirm your answers and develop your ability to think through the problem-solving process.

Loss Models-Stuart A. Klugman 2013-08-29 An essential resource for constructing and analyzing advanced actuarial models Loss Models: Further Topics presents extended coverage of modeling through the use of tools related to risk theory, loss distributions, and survival models. The book uses these methods to construct and evaluate actuarial models in the fields of insurance and business. Providing an advanced study of actuarial methods, the book features extended discussions of risk modeling and risk measures, including Tail-Value-at-Risk. Loss Models: Further Topics contains additional material to accompany the Fourth Edition of Loss Models: From Data to Decisions, such as: Extreme value distributions Coxian and related distributions Mixed Erlang distributions Computational and analytical methods for aggregate claim models Counting processes Compound distributions with time-dependent claim amounts Copula models Continuous time ruin models Interpolation and smoothing The book is an essential reference for practicing actuaries and actuarial researchers who want to go beyond the material required for actuarial qualification. Loss Models: Further Topics is also an excellent resource for graduate students in the actuarial field.

C Primer Plus-Stephen Prata 2014 Explains fundamental programming concepts, including structured code and top-down design.

Introduction to Automata Theory, Languages, and Computation-John E. Hopcroft 2014 This classic book on formal languages, automata theory, and computational complexity has been updated to present theoretical concepts in a concise and straightforward manner with the increase of hands-on, practical applications. This new edition comes with Gradiance, an online assessment tool developed for computer science. Please note, Gradiance is no longer available with this book, as we no longer support this product.

Study Guide with Self-correcting Exercises for Elementary Statistics-Robert Johnson 1980

Student Solutions Manual for Stewart's Calculus: Solutions to odd-numbered exercises-Daniel Anderson 1987

Solutions to Exercises in Chemistry, the Central Science, 2nd Edition-Theodore Lawrence Brown 1981

Numerical Analysis-Richard L. Burden 2010-08-09 This well-respected text gives an introduction to the theory and application of modern numerical approximation techniques for students taking a one- or two-semester course in numerical analysis. With an accessible treatment that only requires a calculus prerequisite, Burden and Faires explain how, why, and when approximation techniques can be expected to work, and why, in some situations, they fail. A wealth of examples and exercises develop students' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing, engineering, and physical science disciplines. The first book of its kind built from the ground up to serve a diverse undergraduate audience, three decades later Burden and Faires remains the definitive introduction to a vital and practical subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Learning C++ by Creating Games with UE4-William Sherif 2015-02-24 If you are really passionate about games and have always wanted to write your own, this book is perfect for you. It will help you get started with programming in C++ and explore the immense functionalities of UE4.

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