

Mathematical Methods For Scientists And Engineers

Quantum Mechanics for Scientists and Engineers Introduction to High Performance Computing for Scientists and Engineers FORTRAN FOR SCIENTISTS & ENGINEERS Physics for Scientists and Engineers with Modern Physics Turbulence Theory of Elasticity for Scientists and Engineers Quantum Mechanics for Scientists and Engineers Physics for Scientists and Engineers Mathematical Methods for Scientists and Engineers Data Analysis for Scientists and Engineers Essential Quotes for Scientists and Engineers FORTRAN 90 for Scientists and Engineers God's Mechanics Mathematical Handbook for Scientists and Engineers Presentation Skills for Scientists and Engineers Sustainable Networking for Scientists and Engineers Mentoring Scientists and Engineers Essential Java for Scientists and Engineers Excel for Scientists and Engineers Optical Measurements for Scientists and Engineers Matrix Analysis for Scientists and Engineers Numerical Analysis For Scientists And Engineers: Theory And C Programs Modern Instrumentation for Scientists and Engineers Scientists Must Write Science in Action Finite Fields for Computer Scientists and Engineers Student's Workbook for Physics for Scientists and Engineers Physics for Scientists and Engineers Calculus for Scientists and Engineers Design of Experiments for Engineers and Scientists Feedback Systems Physics for Scientists and Engineers Parameter Estimation for Scientists and Engineers Tribology for Scientists and Engineers An Introduction to Python Programming for Scientists and Engineers Dangerous Science Essential MATLAB for Scientists and Engineers Advanced Mathematical Methods for Scientists and Engineers I An Introduction to HTML and JavaScript Introducing C++ for Scientists, Engineers and Mathematicians

As recognized, adventure as capably as experience very nearly lesson, amusement, as competently as promise can be gotten by just checking out a book Mathematical Methods For Scientists And Engineers after that it is not directly done, you could agree to even more in this area this life, nearly the world.

We offer you this proper as skillfully as simple pretension to acquire those all. We come up with the money for Mathematical Methods For Scientists And Engineers and numerous book collections from fictions to scientific research in any way. in the middle of them is this Mathematical Methods For Scientists And Engineers that can be your partner.

Student's Workbook for Physics for Scientists and Engineers Aug 10 2020 These popular and proven workbooks help students build confidence before attempting end-of-chapter problems. They provide short exercises that focus on developing a particular skill, mostly requiring students to draw or interpret sketches and graphs. New to the Fourth Edition are exercises that provide guided practice for the textbook's Model boxes.

God's Mechanics Oct 24 2021 Brother Guy Consolmagno, scientist and Vatican astronomer, sees past the differences between science and religion and embraces the connections between them. In this volume, he explores the way scientists and engineers reconcile these two seemingly divergent world views.

FORTRAN 90 for Scientists and Engineers Nov 24 2021 The introduction of the Fortran 90 standard is the first significant change in the Fortran language in over 20 years. This book is designed for anyone wanting to learn Fortran for the first time or a programmer who needs to upgrade from Fortran 77 to Fortran 90. Employing a practical, problem-based approach this book provides a comprehensive introduction to the language. More experienced programmers will find it a useful update to the new standard and will benefit from the emphasis on science and engineering applications.

Presentation Skills for Scientists and Engineers Aug 22 2021 This book provides concise and effective tips spanning all relevant areas to deliver engaging scientific presentations. Readers will strengthen their skills in preparing, practicing and delivering presentations at both physical and virtual conferences and seminars. Best practices for structuring presentations and elements to include and those to exclude such as detailed sections on the use of videos, animations and tables are included. Common errors often seen in scientific presentations are highlighted along with tips on how to interact with audiences and keep them engaged. This will be a valuable resource for scientists in all areas of chemistry and materials science as well as engineers who wish to elevate their scientific presentations.

Essential MATLAB for Scientists and Engineers Sep 30 2019 Based on a teach-yourself approach, the fundamentals of MATLAB are illustrated throughout with many examples from a number of different scientific and engineering areas, such as simulation, population modelling, and numerical methods, as well as from business and everyday life. Some of the examples draw on first-year university level maths, but these are self-contained so that their omission will not detract from learning the principles of using MATLAB. This completely revised new edition is based on the latest version of MATLAB. New chapters cover handle graphics, graphical user interfaces (GUIs), structures and cell arrays, and importing/exporting data. The chapter on numerical methods now includes a general GUI-driver ODE solver. * Maintains the easy informal style of the first edition * Teaches the basic principles of scientific programming with MATLAB as the vehicle * Covers the latest version of MATLAB

Quantum Mechanics for Scientists and Engineers Nov 05 2022 Relates the core principles of quantum mechanics to practical applications in engineering, physics, and nanotechnology.

Scientists Must Write Nov 12 2020 This book, by a scientist, is not a textbook on English grammar: nor is it just one more book on how to write a technical report, or a thesis, or a paper for publication. It is about all the ways in which writing is important to scientists and engineers in helping them to remember to observe, to think, to plan, to organize and to communicate.

Theory of Elasticity for Scientists and Engineers May 31 2022 This book is intended to be an introduction to elasticity theory. It is asumed that the student, before reading this book, has had courses in me chanics (statics, dynamics) and strength of materials (mechanics of materials). It is written at a level for undergraduate and beginning graduate engineering students in mechanical, civil, or aerospace engineering. As a background in mathematics, readers are expected to have had courses in ad vanced calculus, linear algebra, and differential equations. Our experience in teaching elasticity theory to engineering students leads us to believe that the course must be problem-solving oriented. We believe that formulation and solution of the problems is at the heart of elasticity theory. 1 Of course orientation to problem-solving philosophy does not exclude the need to study fundamentals. By fundamentals we mean both mechanical concepts such as stress, deformation and strain, compatibility conditions, constitutive relations, energy of deformation, and mathematical methods, such as partial differential equations, complex variable and variational methods, and numerical techniques. We are aware of many excellent books on elasticity, some of which are listed in the References. If we are to state what differentiates our book from other similar texts we could, besides the already stated problem-solving ori entation, list the following: study of deformations that are not necessarily small, selection of problems that we treat, and the use of Cartesian tensors only.

Advanced Mathematical Methods for Scientists and Engineers I Aug 29 2019 A clear, practical and self-contained presentation of the methods of asymptotics and perturbation theory for obtaining approximate analytical solutions to differential and difference equations. Aimed at teaching the most useful insights in approaching new problems, the text avoids special methods and tricks that only work for particular problems. Intended for graduates and advanced undergraduates, it assumes only a limited familiarity with differential equations and complex variables. The presentation begins with a review of differential and difference equations, then develops local asymptotic methods for such equations, and explains perturbation and summation theory before concluding with an exposition of global asymptotic methods. Emphasizing applications, the discussion stresses care rather than rigor and relies on many well-chosen examples to teach readers how an applied mathematician tackles problems. There are 190 computer-generated plots and tables comparing approximate and exact solutions, over 600 problems of varying levels of difficulty, and an appendix summarizing the properties of special functions.

Dangerous Science Oct 31 2019 The public is generally enthusiastic about the latest science and technology, but sometimes research threatens the physical safety or ethical norms of society. When this happens, scientists and engineers can find themselves unprepared in the midst of an intense science policy debate. In the absence of convincing evidence, technological optimists and skeptics struggle to find common values on which to build consensus. The best way to avoid these situations is to sidestep the instigating controversy by using a broad risk-benefit assessment as a risk exploration tool to help scientists and engineers design experiments and technologies that accomplish intended goals while avoiding physical or moral dangers. Dangerous Science explores the intersection of science policy and risk analysis to detail failures in current science policy practices and what can be done to help minimize the negative impacts of science and technology on society.

Science in Action Oct 12 2020 From weaker to stronger rhetoric : literature - Laboratories - From weak points to strongholds : machines - Insiders out - From short to longer networks : tribunals of reason - Centres of calculation.

Physics for Scientists and Engineers with Modern Physics Aug 02 2022 Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS WITH MODERN PHYSICS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Calculus for Scientists and Engineers Jun 07 2020 This book presents the basic concepts of calculus and its relevance to real-world problems, covering the standard topics in their conventional order. By focusing on applications, it allows readers to view mathematics in a practical and relevant setting. Organized into 12 chapters, this book includes numerous interesting, relevant and up-to-date applications that are drawn from the fields of business, economics, social and behavioural sciences, life sciences, physical sciences, and other fields of general interest. It also features MATLAB, which is used to solve a number of problems. The book is ideal as a first course in calculus for mathematics and engineering students. It is also useful for students of other sciences who are interested in learning calculus.

Essential Java for Scientists and Engineers May 19 2021 Essential Java serves as an introduction to the programming language, Java, for scientists and engineers, and can also be used by experienced programmers wishing to learn Java as an additional language. The book focuses on how Java, and object-oriented programming, can be used to solve science and engineering problems. Many examples are included from a number of different scientific and engineering areas, as well as from business and everyday life. Pre-written packages of code are provided to help in such areas as input/output, matrix manipulation and scientific graphing. Takes a 'dive-in' approach, getting the reader writing and running programs immediately Teaches object-oriented programming for problem-solving in engineering and science

Mathematical Handbook for Scientists and Engineers Sep 22 2021

Sustainable Networking for Scientists and Engineers Jul 21 2021

Mathematical Methods for Scientists and Engineers Feb 25 2022 "Intended for upper-level undergraduate and graduate courses in chemistry, physics, math and engineering, this book will also become a must-have for the personal library of all advanced students in the physical sciences. Comprised of more than 2000 problems and 700 worked examples that detail every single step, this text is exceptionally well adapted for self study as well as for course use."--From publisher description.

Data Analysis for Scientists and Engineers Jan 27 2022 Data Analysis for Scientists and Engineers is a modern, graduate-level text on data analysis techniques for physical science and engineering students as well as working scientists and engineers. Edward Robinson emphasizes the principles behind various techniques so that practitioners can adapt them to their own problems, or develop new techniques when necessary. Robinson divides the book into three sections. The first section covers basic concepts in probability and includes a chapter on Monte Carlo methods with an extended discussion of Markov chain Monte Carlo sampling. The second section introduces statistics and then develops tools for fitting models to data, comparing and contrasting techniques from both frequentist and Bayesian perspectives. The final section is devoted to methods for analyzing sequences of data, such as correlation functions, periodograms, and image reconstruction. While it goes beyond elementary statistics, the text is self-contained and accessible to readers from a wide variety of backgrounds. Specialized mathematical topics are included in an appendix. Based on a graduate course on data analysis that the author has taught for many years, and couched in the looser, workaday language of scientists and engineers who wrestle directly with data, this book is ideal for courses on data analysis and a valuable resource for students, instructors, and practitioners in the physical sciences and engineering. In-depth discussion of data analysis for scientists and engineers Coverage of both frequentist and Bayesian approaches to data analysis Extensive look at analysis techniques for time-series data and images Detailed exploration of linear and nonlinear modeling of data Emphasis on error analysis Instructor's manual (available only to professors)

Feedback Systems Apr 05 2020 This book provides an introduction to the mathematics needed to model, analyze, and design feedback systems. It is an ideal textbook for undergraduate and graduate students, and is indispensable for researchers seeking a self-contained reference on control theory. Unlike most books on the subject, Feedback Systems develops transfer functions through the exponential response of a system, and is accessible across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science.

Design of Experiments for Engineers and Scientists May 07 2020 The tools and techniques used in Design of Experiments (DoE) have been proven successful in meeting the challenge of continuous improvement in many manufacturing organisations over the last two decades. However research has shown that application of this powerful technique in many companies is limited due to a lack of statistical knowledge required for its effective implementation. Although many books have been written on this subject, they are mainly by statisticians, for statisticians and not appropriate for engineers. Design of Experiments for Engineers and Scientists overcomes the problem of statistics by taking a unique approach using graphical tools. The same outcomes and conclusions are reached as through using statistical methods and readers will find the concepts in this book both familiar and easy to understand. This new edition includes a chapter on the role of DoE within Six Sigma methodology and also shows through the use of simple case studies its importance in the service industry. It is essential reading for engineers and scientists from all disciplines tackling all kinds of manufacturing, product and process quality problems and will be an ideal resource for students of this topic. Written in non-statistical language, the book is an essential and accessible text for scientists and engineers who want to learn how to use DoE Explains why teaching DoE techniques in the improvement phase of Six Sigma is an important part of problem solving methodology New

edition includes a full chapter on DoE for services as well as case studies illustrating its wider application in the service industry

Introducing C++ for Scientists, Engineers and Mathematicians Jun 27 2019 Written especially for scientists, engineers and mathematicians, this book has been extensively updated and revised to conform to the 1998 ANSI/ISO C++ Standard. It now includes all the recent developments in C++. Amongst its novel features is that no knowledge of programming is assumed. It is as much for the beginner in programming as it is for the newcomer to C++. Plenty of relevant examples are included throughout the book, most of which are slanted towards numerical applications, and it is this bias that makes it unique in its field and of particular interest to those who have to work with figures.

Matrix Analysis for Scientists and Engineers Feb 13 2021 "Prerequisites for using this text are knowledge of calculus and some previous exposure to matrices and linear algebra, including, for example, a basic knowledge of determinants, singularity of matrices, eigenvalues and eigenvectors, and positive definite matrices. There are exercises at the end of each chapter."--BOOK JACKET.

Excel for Scientists and Engineers Apr 17 2021 Learn to fully harness the power of Microsoft Excel(r) to perform scientific and engineering calculations With this text as your guide, you can significantly enhance Microsoft Excel's(r) capabilities to execute the calculations needed to solve a variety of chemical, biochemical, physical, engineering, biological, and medicinal problems. The text begins with two chapters that introduce you to Excel's Visual Basic for Applications (VBA) programming language, which allows you to expand Excel's(r) capabilities, although you can still use the text without learning VBA. Following the author's step-by-step instructions, here are just a few of the calculations you learn to perform: * Use worksheet functions to work with matrices * Find roots of equations and solve systems of simultaneous equations * Solve ordinary differential equations and partial differential equations * Perform linear and non-linear regression * Use random numbers and the Monte Carlo method This text is loaded with examples ranging from very basic to highly sophisticated solutions. More than 100 end-of-chapter problems help you test and put your knowledge to practice solving real-world problems. Answers and explanatory notes for most of the problems are provided in an appendix. The CD-ROM that accompanies this text provides several useful features: * All the spreadsheets, charts, and VBA code needed to perform the examples from the text * Solutions to most of the end-of-chapter problems * An add-in workbook with more than twenty custom functions This text does not require any background in programming, so it is suitable for both undergraduate and graduate courses. Moreover, practitioners in science and engineering will find that this guide saves hours of time by enabling them to perform most of their calculations with one familiar spreadsheet package.

FORTRAN FOR SCIENTISTS & ENGINEERS Sep 03 2022 Fortran for Scientists and Engineers teaches simultaneously both the fundamentals of the Fortran language and a programming style that results in good, maintainable programs. In addition, it serves as a reference for Professionals working in the industry. Among its strengths are its concise, clear explanations of Fortran Syntax and Programming Procedures, the inclusion of a wealth of examples and exercises to help students grasp difficult concepts, and its explanations about how to understand code written for older versions of Fortran.

Numerical Analysis For Scientists And Engineers: Theory And C Programs Jan 15 2021

Introduction to High Performance Computing for Scientists and Engineers Oct 04 2022 Written by high performance computing (HPC) experts, Introduction to High Performance Computing for Scientists and Engineers provides a solid introduction to current mainstream computer architecture, dominant parallel programming models, and useful optimization strategies for scientific HPC. From working in a scientific computing center, the author

Parameter Estimation for Scientists and Engineers Feb 02 2020 The subject of this book is estimating parameters of expectation models of statistical observations. The book describes the most important aspects of the subject for applied scientists and engineers. This group of users is often not aware of estimators other than least squares. Therefore one purpose of this book is to show that statistical parameter estimation has much more to offer than least squares estimation alone. In the approach of this book, knowledge of the distribution of the observations is involved in the choice of estimators. A further advantage of the chosen approach is that it unifies the underlying theory and reduces it to a relatively small collection of coherent, generally applicable principles and notions.

Mentoring Scientists and Engineers Jun 19 2021 Mentoring is very much more than simple one-to-one informal instruction, or what used to be called 'coaching'. Modern mentoring techniques are modelled on those of executive coaching as well as expert academic tutoring. Mentoring is simple but not necessarily easy. An estimated 40% of all mentoring schemes fail through lack of mentor training and understanding. No great effort is required to study the literature but, for mentoring to be effective, adherence to basic principles and exercising specific skills is absolutely necessary. The book provides an introduction to what we mean by mentoring and its basic skills - skilful questioning, active listening, building trust, self-management and giving advice and feedback. It further covers mentoring principles, how to conduct mentoring sessions and a wide range of practical applications. The final chapter gives the outlines and principles for creating a basic mentoring scheme within an organisational context. This book is written for those practitioners in science, technology, engineering and mathematics, the STEM fields, who have been pitched into the role of mentor without any prior training. Its objective is to alleviate anxiety, frustration and stress caused by not knowing exactly what is expected. In offering an introduction to mentoring it gives practical guidance as a quick and easy read.

Physics for Scientists and Engineers Jul 09 2020 Tipler's textbook sets the standard in introductory physics courses for clarity, accuracy, and precision. This title offers a completely integrated text and media solution, enabling professors to customise their classrooms so that they can teach efficiently and get the most out of their students. This text includes a new strategic problem solving approach and an integrated Maths Tutorial with new tools to improve conceptual understanding. These particular chapters focus on Mechanics, Oscillations and Waves and Thermodynamics. The chapters cover a detailed look with the use of highly informative diagrams and pedagogical information broken up into understandable parts. Through partnering with digital help Sapling Learning, this online homework platform provides extra learning and assessment help for both you and your students. With automatic grading and an easy to use platform, instructors have the option to track and grade each step of the process.

Optical Measurements for Scientists and Engineers Mar 17 2021 An accessible, introductory text explaining how to select, set up and use optical spectroscopy and optical microscopy techniques.

Modern Instrumentation for Scientists and Engineers Dec 14 2020 This modern presentation comprehensively addresses the principal issues in modern instrumentation, but without attempting an encyclopaedic reference. It covers the most important topics in electronics, sensors, measurements and acquisition systems, and will be an indispensable reference for readers in a wide variety of disciplines.

Quantum Mechanics for Scientists and Engineers Apr 29 2022 If you need a book that relates the core principles of quantum mechanics to modern applications in engineering, physics, and nanotechnology, this is it. Students will appreciate the book's applied emphasis, which illustrates theoretical concepts with examples of nanostructured materials, optics, and semiconductor devices. The many worked examples and more than 160 homework problems help students to problem solve and to practise applications of theory. Without assuming a prior knowledge of high-level physics or classical mechanics, the text introduces Schrödinger's equation, operators, and approximation methods. Systems, including the hydrogen atom and crystalline materials, are analyzed in detail. More advanced subjects, such as density matrices, quantum optics, and quantum information, are also covered. Practical applications and algorithms for the computational analysis of simple structures make this an ideal introduction to quantum mechanics for students of engineering, physics, nanotechnology, and other disciplines. Additional resources available from www.cambridge.org/9780521897839.

Finite Fields for Computer Scientists and Engineers Sep 10 2020 This book developed from a course on finite fields I gave at the University of Illinois at Urbana-Champaign in the Spring semester of 1979. The course was taught at the request of an exceptional group of graduate students (including Anselm Blumer, Fred Garber, Evaggelos Geraniotis, Jim Lehnert, Wayne Stark, and Mark Wallace) who had just taken a course on coding theory from me. The theory of finite fields is the mathematical foundation of algebraic coding theory, but in coding theory courses there is never much time to give more than a "Volkswagen" treatment of them. But my 1979 students wanted a "Cadillac" treatment, and this book differs very little from the course I gave in response. Since 1979 I have used a subset of my course notes (corresponding roughly to Chapters 1-6) as the text for my "Volkswagen" treatment of finite fields whenever I teach coding theory. There is, ironically, no coding theory anywhere in the book! If this book had a longer title it would be "Finite fields, mostly of characteristic 2, for engineering and computer science applications." It certainly does not pretend to cover the general theory of finite fields in the profound depth that the recent book of Lidl and Neiderreiter (see the Bibliography) does.

Physics for Scientists and Engineers Mar 05 2020

Tribology for Scientists and Engineers Jan 03 2020 This book describes available tribology technologies and introduces a comprehensive overview of tribology. General, up-to-date knowledge on how tribology is approached in various related areas of research, both experimental and computational is provided.

Physics for Scientists and Engineers Mar 29 2022 For courses in introductory calculus-based physics. A research-driven approach, fine-tuned for even greater ease-of-use and student success For the Fourth Edition of Physics for Scientists and Engineers, Knight continues to build on strong research-based foundations with fine-tuned and streamlined content, hallmark features, and an even more robust MasteringPhysics program, taking student learning to a new level. By extending problem-solving guidance to include a greater emphasis on modeling and significantly revised and more challenging problem sets, students gain confidence and skills in problem solving. A modified Table of Contents and the addition of advanced topics now accommodate different teaching preferences and course structures. Note: You are purchasing a standalone product; MasteringPhysics does not come packaged with this content. Students, if interested in purchasing this title with MasteringPhysics, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. 0133953149 / 9780133953145 Physics for Scientists and Engineers: A Strategic Approach with Modern Physics Plus MasteringPhysics with eText -- Access Card Package, (Chs 1 - 42), 4/e Package consists of: 0133942651 / 9780133942651 Physics for Scientists and Engineers: A Strategic Approach with Modern Physics, 4/e 013406982X / 9780134069821 MasteringPhysics with Pearson eText -- ValuePack Access Card -- for Physics for Scientists and Engineers: A Strategic Approach 0134083164 / 9780134083162 Student's Workbook for Physics for Scientists and Engineers: A Strategic Approach with Modern Physics

An Introduction to Python Programming for Scientists and Engineers Dec 02 2019 Python is one of the most popular programming languages, widely used for data analysis and modelling, and is fast becoming the leading choice for scientists and engineers. Unlike other textbooks introducing Python, typically organised by language syntax, this book uses many examples from across Biology, Chemistry, Physics, Earth science, and Engineering to teach and motivate students in science and engineering. The text is organised by the tasks and workflows students undertake day-to-day, helping them see the connections between programming tools and their disciplines. The pace of study is carefully developed for complete beginners, and a spiral pedagogy is used so concepts are introduced across multiple chapters, allowing readers to engage with topics more than once. "Try This!" exercises and online Jupyter notebooks encourage students to test their new knowledge, and further develop their programming skills. Online solutions are available for instructors, alongside discipline-specific homework problems across the sciences and engineering.

Essential Quotes for Scientists and Engineers Dec 26 2021 This book brings together about 2,500 quotations on various topics of interest to scientists and engineers, including students of STEM disciplines. Careful curation of the material by the editor provides the reader with far greater value than can be obtained by searching the internet. The quotes have been selected for various attributes including: importance of topic, depth of insight, and - not least - wit, with many of them satisfying all these criteria. To make sequential reading of the quotes more engaging, they are grouped into broad topical sections, and the entries within each section are organized thematically, forming quasi-continuous narrative threads. The text and authorship of each quote have been carefully verified, and the most popular cases of misquotation and misattribution are noted. The book represents a valuable resource for those writing science and engineering articles as well as being a joy to read in its own right.

Turbulence Jul 01 2022 This is an advanced textbook on the subject of turbulence, and is suitable for engineers, geophysicists, and applied mathematicians. The aim of the book is to bridge the gap between the elementary, heuristic accounts of turbulence to be found in undergraduate texts, and the more rigorous, if daunting, accounts given in the many monographs on the subject. Throughout, the book combines the maximum of physical insight with the minimum of mathematical detail.

An Introduction to HTML and JavaScript Jul 29 2019 Dual-use technological writing at its best. This book presents HTML and JavaScript in a way that uniquely meets the needs of students in both engineering and the sciences. The author shows how to create simple client-side applications for scientific and engineering calculations. Complete HTML/JavaScript examples with science/engineering applications are used throughout to guide the reader comprehensively through the subject. The book gives the reader a sufficient understanding of HTML and JavaScript to write their online applications. This book emphasises basic programming principles in a modern Web-oriented environment, making it suitable for an introductory programming course for non-computer science majors. It is also ideal for self-study.