Practical Algebra Self Teaching Guide Second

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Practical Electronics - Ralph Morrison 2003-11-05
Publisher's description: A fast, easy way to become acquainted with electronic circuits This new Self-Teaching Guide instructs readers in the basics of electricity and electronic components, including transistors, capacitors, diodes, resistors, and integrated circuits. Assuming no prior electronics experience, it allows students to learn at their own pace and features

numerous quick quizzes, self-tests, and checklists that help reinforce key concepts. Detailed "learning circuits" show intrepid learners how to construct their own circuits, putting into practice the concepts explained in the text. Practical Electronics is the ideal partner for the student or hobbyist.

Chemistry: Concepts and Problems - Clifford C. Houk 1996-03-09
CHEMISTRY SECOND EDITION The fast, easy way to master the fundamentals of chemistry Have you ever wondered about the differences between liquids,gases, and solids? Or what actually happens when something burns?What exactly is a solution? An acid? A base? This is chemistry--thecomposition and structure of substances composing all matter, andhow they can be transformed. Whether you are studying chemistry forthe first time on your own, want to refresh your memory for a test,or need a little help for a course, this concise, interactive guidegives you a fresh approach to this fascinating subject. This fullyup-to-date edition of Chemistry: Concepts and Problems: * Has been tested, rewritten, and retested to ensure that you canteach yourself all about chemistry * Requires no prerequisites * Lets you work at your own pace with a helpful question-and-answerformat * Lists objectives for each chapter--you can skip ahead or findextra help if you need it * Reinforces what you learn with chapter self-tests

Geometry - Steve Slavin 2004-10-28
Learn geometry at your own pace What are congruent circles? How do you find the hypotenuse of atriangle? What is the sum of the angles in a decagon? How can youapply geometric equations to your daily life? With the unbeatablestudy companion Geometry: A Self-Teaching Guide, you'll discoverthe answers to these questions and many more. This thorough primer presents an easy-to-follow, proven method forgrasping the key concepts of geometry. You'll progress step by stepthrough

plane, solid, and analytic geometry and then move on togeometric applications for calculus. You'll build yourproblem-solving skills along the way through detailed examples,reviews, exercises, and answer explanations. The clearly structuredformat of Geometry makes it fully accessible, providing an easilyunderstood, comprehensive overview for everyone from high schoolstudents to adult learners to math mavens. Like all Self-Teaching Guides, Geometry allows you to buildgradually on what you have learned-at your own pace. Questions andself-tests reinforce the information in each chapter and allow youto skip ahead or focus on specific areas of concern. Packed withuseful, up-to-date information, this clear, concise volume is avaluable learning tool and reference source for anyone who wants toimprove his or her understanding of basic geometry.

Basic Physics - K. Kuhn 2018-01-02
Here is the most practical, complete, and easy-to-use book available for understanding physics.

Even if you do not consider yourself a science student, this book helps make learning a pleasure.

Chemistry - Richard Post 2020-09-16
A practical, complete, and easy-to-use guide for understanding major chemistry concepts and terms Master the fundamentals of chemistry with this fast and easy guide. Chemistry is a fundamental science that touches all other sciences, including biology, physics, electronics, environmental studies, astronomy, and more. Thousands of students have successfully used the previous editions of Chemistry: Concepts and Problems, A Self-Teaching Guide to learn chemistry, either independently, as a refresher, or in parallel with a college chemistry course. This newly revised edition includes updates and additions to improve your success in learning chemistry. This book uses an interactive, self-teaching method including frequent questions and study problems, increasing both the speed of learning and retention. Monitor your progress

with self-tests, and master chemistry quickly. This revised Third Edition provides a fresh, step-by-step approach to learning that requires no prerequisites, lets you work at your own pace, and reinforces what you learn, ensuring lifelong mastery. Master the science of basic chemistry with this innovative, self-paced study guide Teach yourself chemistry, refresh your knowledge in preparation for medical studies or other coursework, or enhance your college chemistry course Use self-study features including review questions and quizzes to ensure that you're really learning the material Prepare for a career in the sciences, medicine, or engineering with the core content in this user-friendly guide Authored by expert postsecondary educators, this unique book gently leads students to deeper levels and concepts with practice, critical thinking, problem solving, and self-assessment at every stage.

All the Math You'll Ever Need - Carolyn C. Wheater 2022-04-13

A comprehensive and hands-on guide to crucial math concepts and terminology In the newly revised third edition of All the Math You'll Ever Need: A Self-Teaching Guide, veteran math and computer technology teacher Carolyn Wheater and veteran mathematics author Steve Slavin deliver a practical and accessible guide to math you can use every day and apply to a wide variety of life tasks. From calculating monthly mortgage payments to the time you'll need to pay off a credit card, this book walks you through the steps to understanding basic math concepts. This latest edition is updated to reflect recent changes in interest rates, prices, and wages, and incorporates information on the intelligent and efficient use of calculators and mental math techniques. It also offers: A brand-new chapter on hands-on statistics to help readers understand common graphs An easy-to-use-format that provides an interactive method with frequent questions, problems, and self-tests Complete explanations of necessary

mathematical concepts that explore not just how math works, but also why it works Perfect for anyone seeking to make practical use of essential math concepts and strategies in their day-to-day life, All the Math You'll Ever Need is an invaluable addition to the libraries of students who want a bit of extra help applying math in the real world.

Networking Self-Teaching Guide - James Edwards 2015-03-24
IT professionals who want to move into the networking side in acorporate or enterprise setting will find the detailed content theyneed to get up to speed on the very latest networking technologies;plus, current networking professionals will find this a valuableand up-to-date resource. This hands-on guide is designed so thatyou can select, design, and implement an actual network using thetutorials and steps in the book. Coverage includes an overview ofnetworking technologies, including the hardware, software,transmission media, and

data transfer processes; in-depth coverageof OSI and TCP/IP reference models; operating systems and othersystems software used in today?s networks; LANs, WANS, and MANs,including the components and standards that operate within eachtype of area network; and more.

Quick Arithmetic - Robert A. Carman 1984-04-17
This revised and updated edition teaches basic math skills needed on the job or in school in clear, humorous, conversational style. Chapters begin with a diagnostic preview or pretest and specific objectives keyed to the text. Includes practice problems and self-tests.

Quick Algebra Review - Peter H. Selby 1993-02-22
The fastest, easiest way to brush up on your algebra! Quick Algebra Review Need to hone your algebra skills? This bestselling review course in intermediate algebra gives you all the concepts, procedures, and problem-solving methods you need to succeed. * Each chapter begins with an easy-to-use chart that zeroes in

on your problem areas. Now you can avoid wasting hours rehashing familiar concepts. * Every key algebraic concept is covered thoroughly--including positive and negative numbers, fractions, rational numbers, factoring, linear equations, quadratic equations, and word problems. * Hundreds of questions, answers, review problems, and quizzes help you to test your progress every step of the way. Now updated and revised to be even more relevant and accessible than ever, Quick Algebra Review is packed with practical examples drawn from real-life situations. Cover Design: Donald Munson

Quick Calculus - Daniel Kleppner 1991-01-16 Quick Calculus 2nd Edition A Self-Teaching Guide Calculus is essential for understanding subjects ranging from physics and chemistry to economics and ecology. Nevertheless, countless students and others who need quantitative skills limit their futures by avoiding this subject like the plague. Maybe that's why the first edition of this self-teaching guide sold over 250,000 copies. Quick Calculus, Second Edition continues to teach the elementary techniques of differential and integral calculus quickly and painlessly. Your "calculus anxiety" will rapidly disappear as you work at your own pace on a series of carefully selected work problems. Each correct answer to a work problem leads to new material, while an incorrect response is followed by additional explanations and reviews. This updated edition incorporates the use of calculators and features more applications and examples. ".makes it possible for a person to delve into the mystery of calculus without being mystified." --Physics Teacher

All the Math You'll Ever Need - Steve Slavin 1999-04-12
A sharp mind, like a healthy body, is subject to the same ruleof nature: Use it or lose it Need a calculator just to work out a 15 percent service charge? Not exactly sure how to get the calculator to give you the figureyou need? Turn

to this revised and updated edition of All the MathYou'll Ever Need, the friendliest, funniest, and easiest workoutprogram around. In no time, you'll have total command of all the powerfulmathematical tools needed to make numbers work for you. In adollars-and-cents, bottom-line world, where numbers influenceeverything, none of us can afford to let our math skills atrophy.This step-by-step personal math trainer: Refreshes practical math skills for your personal andprofessional needs, with examples based on everyday situations. Offers straightforward techniques for working with decimals and fractions. Demonstrates simple ways to figure discounts, calculatemortgage interest rates, and work out time, rate, and distance problems. Contains no complex formulas and no unnecessary technical terms.

Linear Algebra Done Right - Sheldon Axler 1997-07-18
This text for a second course in linear algebra, aimed at math majors and graduates, adopts a novel approach by banishing determinants to the end of the book and focusing on understanding the structure of linear operators on vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. For example, the book presents - without having defined determinants - a clean proof that every linear operator on a finite-dimensional complex vector space has an eigenvalue. The book starts by discussing vector spaces, linear independence, span, basics, and dimension. Students are introduced to inner-product spaces in the first half of the book and shortly thereafter to the finite- dimensional spectral theorem. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear algebra. This second edition features new chapters on diagonal matrices, on linear functionals and adjoints, and on the spectral theorem; some sections, such as those on self-adjoint and

normal operators, have been entirely rewritten; and hundreds of minor improvements have been made throughout the text.

Learning How to Learn - Barbara Oakley, PhD 2018-08-07
A surprisingly simple way for students to master any subject--based on one of the world's most popular online courses and the bestselling book A Mind for Numbers A Mind for Numbers and its wildly popular online companion course "Learning How to Learn" have empowered more than two million learners of all ages from around the world to master subjects that they once struggled with. Fans often wish they'd discovered these learning strategies earlier and ask how they can help their kids master these skills as well. Now in this new book for kids and teens, the authors reveal how to make the most of time spent studying. We all have the tools to learn what might not seem to come naturally to us at first--the secret is to understand how the brain works so we can unlock its power. This book explains: • Why sometimes letting your mind wander is an important part of the learning process • How to avoid "rut think" in order to think outside the box • Why having a poor memory can be a good thing • The value of metaphors in developing understanding • A simple, yet powerful, way to stop procrastinating Filled with illustrations, application questions, and exercises, this book makes learning easy and fun.

How to Study for a Mathematics Degree - Lara Alcock 2012-11-08
Every year, thousands of students go to university to study mathematics (single honours or combined with another subject). Many of these students are extremely intelligent and hardworking, but even the best will, at some point, struggle with the demands of making the transition to advanced mathematics. Some have difficulty adjusting to independent study and to learning from lectures. Other struggles, however, are more fundamental: the

mathematics shifts in focus from calculation to proof, so students are expected to interact with it in different ways. These changes need not be mysterious - mathematics education research has revealed many insights into the adjustments that are necessary - but they are not obvious and they do need explaining. This no-nonsense book translates these research-based insights into practical advice for a student audience. It covers every aspect of studying for a mathematics degree, from the most abstract intellectual challenges to the everyday business of interacting with lecturers and making good use of study time. Part 1 provides an in-depth discussion of advanced mathematical thinking, and explains how a student will need to adapt and extend their existing skills in order to develop a good understanding of undergraduate mathematics. Part 2 covers study skills as these relate to the demands of a mathematics degree. It suggests practical approaches to learning from lectures and to studying for examinations while also allowing time for a fulfilling all-round university experience. The first subject-specific guide for students, this friendly, practical text will be essential reading for anyone studying mathematics at university.

Mathematics for Machine Learning - Marc Peter Deisenroth 2020-04-23
The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis,

Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

A Book of Abstract Algebra - Charles C Pinter 2010-01-14
Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition.

Partial Differential Equations - Walter A. Strauss 2007-12-21
Partial Differential Equations presents a balanced and comprehensive introduction to the concepts and techniques required to solve problems containing unknown functions of multiple variables. While focusing on the three most classical partial differential equations (PDEs)—the wave, heat, and Laplace equations—this detailed text also presents a broad practical perspective that merges mathematical concepts with real-world application in diverse areas including molecular structure, photon and electron interactions, radiation of electromagnetic waves, vibrations of a solid, and many more. Rigorous pedagogical tools aid in student comprehension; advanced topics are introduced frequently, with minimal technical jargon, and a wealth of exercises reinforce vital skills and invite additional self-study. Topics are presented in a logical progression, with major concepts such as wave

propagation, heat and diffusion, electrostatics, and quantum mechanics placed in contexts familiar to students of various fields in science and engineering. By understanding the properties and applications of PDEs, students will be equipped to better analyze and interpret central processes of the natural world.

Algebra - I.M. Gelfand 2003-07-09
This book is about algebra. This is a very old science and its gems have lost their charm for us through everyday use. We have tried in this book to refresh them for you. The main part of the book is made up of problems. The best way to deal with them is: Solve the problem by yourself - compare your solution with the solution in the book (if it exists) - go to the next problem. However, if you have difficulties solving a problem (and some of them are quite difficult), you may read the hint or start to read the solution. If there is no solution in the book for some problem, you may skip it (it is not heavily used in the sequel) and return to it later. The book is divided into sections devoted to different topics. Some of them are very short, others are rather long. Of course, you know arithmetic pretty well. However, we shall go through it once more, starting with easy things. 2 Exchange of terms in addition Let's add 3 and 5: 3+5=8. And now change the order: 5+3=8. We get the same result. Adding three apples to five apples is the same as adding five apples to three - apples do not disappear and we get eight of them in both cases. 3 Exchange of terms in multiplication Multiplication has a similar property. But let us first agree on notation.

Geology - Barbara W. Murck 2001-07-18
Take a learning journey through billions of years of Earthhistory This indispensable guide to the fundamentals of geology is theideal way to introduce yourself to all the basics, from rocks,minerals, and fossil fuels to earthquakes, volcanoes, and platetectonics. Using quick quizzes and self-tests to reinforce keyconcepts, Geology carefully walks you through billions of

years ofEarth history. Illustrated with more than one hundred speciallycommissioned illustrations and fifty photographs that help clarifydifficult concepts, this easy-to-follow book is an interactiveresource for anyone interested in learning more about ourplanet. Whether you are new to geology or want to refresh and update yourknowledge, the proven self-teaching guide approach will allow youto work at your own pace, check your progress, and learn more aboutthis fascinating field of study.

Complete Electronics Self-Teaching Guide with Projects - Earl Boysen 2012-07-09 An all-in-one resource on everything electronics-related! For almost 30 years, this book has been a classic text forelectronics enthusiasts. Now completely updated for today'stechnology, this latest version combines concepts, self-tests, andhands-on projects to offer you a completely repackaged and revisedresource. This unique self-teaching guide featureseasy-to-understand explanations that are presented in auser-friendly format to help you learn the essentials you need towork with electronic circuits. All you need is a general understanding of electronics conceptssuch as Ohm's law and current flow, and an acquaintance withfirst-year algebra. The question-and-answer format, illustrativeexperiments, and self-tests at the end of each chapter make it easyfor you to learn at your own speed. Boasts a companion website that includes more than twentyfull-color, step-by-step projects Shares hands-on practice opportunities and conceptualbackground information to enhance your learning process Targets electronics enthusiasts who already have a basicknowledge of electronics but are interested in learning more aboutthis fascinating topic on their own Features projects that work with the multimeter, breadboard,function generator, oscilloscope, bandpass filter, transistoramplifier, oscillator, rectifier, and more You're sure to get a charge out of the vast coverage included inComplete Electronics Self-

Teaching Guide with Projects!

Deep Learning for Coders with fastai and PyTorch - Jeremy Howard 2020-06-29 Deep learning is often viewed as the exclusive domain of math PhDs and big tech companies. But as this hands-on guide demonstrates, programmers comfortable with Python can achieve impressive results in deep learning with little math background, small amounts of data, and minimal code. How? With fastai, the first library to provide a consistent interface to the most frequently used deep learning applications. Authors Jeremy Howard and Sylvain Gugger, the creators of fastai, show you how to train a model on a wide range of tasks using fastai and PyTorch. You'll also dive progressively further into deep learning theory to gain a complete understanding of the algorithms behind the scenes. Train models in computer vision, natural language processing, tabular data, and collaborative filtering Learn the latest deep learning techniques that matter most in practice Improve accuracy, speed, and reliability by understanding how deep learning models work Discover how to turn your models into web applications Implement deep learning algorithms from scratch Consider the ethical implications of your work Gain insight from the foreword by PyTorch cofounder, Soumith Chintala

Basic Physics - Karl F. Kuhn 2020-09-16 Learn physics at your own pace without an instructor Basic Physics: A Self-Teaching Guide, 3rd Edition is the most practical and reader-friendly guide to understanding all basic physics concepts and terms. The expert authors take a flexible and interactive approach to physics based on new research-based methods about how people most effectively comprehend new material. The book takes complex concepts and breaks them down into practical, easy to digest terms. Subject matter covered includes: Newton's Laws Energy Electricity Magnetism Light Sound And more There are also sections

explaining the math behind each concept for those who would like further explanation and understanding. Each chapter features a list of objectives so that students know what they should be learning from each chapter, test questions, and exercises that inspire deeper learning about physics. High school students, college students, and those re-learning physics alike will greatly enhance their physics education with the help of this one-of-a-kind guide. The third edition of this book reflects and implements new, research-based methods regarding how people best learn new material. As a result, it contains a flexible and interactive approach to learning physics.

All the Math You'll Ever Need - Steve Slavin 1999-03-29
A sharp mind, like a healthy body, is subject to the same ruleof nature: Use it or lose it Need a calculator just to work out a 15 percent service charge? Not exactly sure how to get the calculator to give you the figureyou need? Turn to this revised and updated edition of All the MathYou'll Ever Need, the friendliest, funniest, and easiest workoutprogram around. In no time, you'll have total command of all the powerfulmathematical tools needed to make numbers work for you. In adollars-and-cents, bottom-line world, where numbers influenceeverything, none of us can afford to let our math skills atrophy.This step-by-step personal math trainer: Refreshes practical math skills for your personal andprofessional needs, with examples based on everyday situations. Offers straightforward techniques for working with decimals and fractions. Demonstrates simple ways to figure discounts, calculatemortgage interest rates, and work out time, rate, and distance problems. Contains no complex formulas and no unnecessary technical terms.

Geometry and Trigonometry for Calculus - Peter H. Selby 1975-05-02
A review of plane geometry, numerical

trigonometry, geometric and trigonometric analysis, and limits emphasizes the graphic representation of problems to be solved by combined methods

Technical Shop Mathematics - Thomas Achatz 2005
"Completely revised and updated, this new edition ... provides the algebraic, geometric, and trigonometric concepts essential to solving problems commonly encountered in technical and trade occupations." - Back cover.

Driven by Data - Paul Bambrick-Santoyo 2010-04-12
Offers a practical guide for improving schools dramatically that will enable all students from all backgrounds to achieve at high levels. Includes assessment forms, an index, and a DVD.

Basic Algebra - Anthony W. Knapp 2007-07-28
Basic Algebra and Advanced Algebra systematically develop concepts and tools in algebra that are vital to every mathematician, whether pure or applied, aspiring or established.

Together, the two books give the reader a global view of algebra and its role in mathematics as a whole. The presentation includes blocks of problems that introduce additional topics and applications to science and engineering to guide further study. Many examples and hundreds of problems are included, along with a separate 90-page section giving hints or complete solutions for most of the problems.

Practical Algebra - Peter H. Selby 1991-09-03
Practical Algebra If you studied algebra years ago and now need arefresher course in order to use algebraic principles on the job,or if you're a student who needs an introduction to the subject,here's the perfect book for you. Practical Algebra is an easy andfun-to-use workout program that quickly puts you in command of allthe basic concepts and tools of algebra. With the aid of practical,real-life examples and applications, you'll learn: * The basic approach and application of algebra to problemsolving * The number system (in a much broader way than

you have known itfrom arithmetic) * Monomials and polynomials; factoring algebraic expressions; howto handle algebraic fractions; exponents, roots, and radicals;linear and fractional equations * Functions and graphs; quadratic equations; inequalities; ratio,proportion, and variation; how to solve word problems, andmore Authors Peter Selby and Steve Slavin emphasize practical algebrathroughout by providing you with techniques for solving problems ina wide range of disciplines--from engineering, biology, chemistry,and the physical sciences, to psychology and even sociology andbusiness administration. Step by step, Practical Algebra shows youhow to solve algebraic problems in each of these areas, then allowsyou to tackle similar problems on your own, at your own pace.Self-tests are provided at the end of each chapter so you canmeasure your mastery.
Quick Business Math - Steve Slavin 1995-08-22

The fast, easy way to build your math power Quick Business Math Steve Slavin's step-by-step approach offers: * Quick ways to do all kinds of business-math problems, including basic arithmetic, algebra, percentages, and conversions * Specific, real-life applications such as figuring discounts, calculating simple and compound interest, reading balance sheets and income statements, and preparing graphs and charts * Frequent quizzes that help you check your progress * A complete glossary of business-math terms Quick Business Math is also packed with practice problems and examples drawn from real-life business situations. It's the fastest, easiest way to gain the skills you need.
Teach Yourself Algebra for Electronic Circuits - Kenneth Jenkins 2001-08-27
Practical math to help you plan, design, and problem-solve electric circuits The ideal tool for upgrading career-enhancing math skills, Teach Yourself Algebra for Electronic Circuits helps you learn the methods that support today's

technological growth and innovation. Author Ken Jenkins has put together a genuinely user-friendly tutorial. Every chapter is a self-contained unit, making it easier to find the answers you want and learn at your own pace – without flipping through pages, looking for connections or background. Learn or upgrade your skills with: * Self-teaching text, complete with worked-out questions/solutions and final exams *Math that goes beyond elementary algebra, without the burden of heavy-duty calculus you don't need * Circuit-focused applications, illustrations, and examples * Special help with the algebra of logic and matrices *Hundreds of practical problems with detailed solutions throughout the book * Over 300 illustrations to help you learn quickly and easily

Spelling Made Simple - Stephen V. Ross 1981

Algebra Demystified - Rhonda Huettenmueller 2002-08-22

Whether you want to learn more about algebra, refresh your skills, or improve your classroom performance, Algebra Demystified is the perfect shortcut. Knowing algebra gives you a better choice of jobs, helps you perform better in science, computing, and math courses, ups your score on competitive exams, and improves your ability to do daily computations. And there's no faster or more painless way to master the subject than Algebra Demystified! Entertaining author and experienced teacher Rhonda Huettenmueller provides all the math background you need and uses practical examples, real data, and a totally different approach to life the "myst" from algebra. With Algebra Demystified, you master algebra one simple step at a time--at your own speed. Unlike most books on the subject, general concepts are presented first --and the details follow. In order to make the process as clear and simple as possible, long computations are presented in a logical, layered progression with just one

execution per step. THIS ONE-OF-A-KIND SELF-TEACHING TEXT OFFERS: Questions at the end of every chapter and section to reinforce learning and pinpoint weaknesses A 100-questions final exam for self-assessment An intensive focus on word problems and fractions--help where it's most often needed Detailed examples and solutions

Advanced Algebra - Anthony W. Knapp 2007-10-11
Basic Algebra and Advanced Algebra systematically develop concepts and tools in algebra that are vital to every mathematician, whether pure or applied, aspiring or established. Advanced Algebra includes chapters on modern algebra which treat various topics in commutative and noncommutative algebra and provide introductions to the theory of associative algebras, homological algebras, algebraic number theory, and algebraic geometry. Many examples and hundreds of problems are included, along with hints or complete solutions for most of the problems. Together the two books give the reader a global view of algebra and its role in mathematics as a whole.
Essential Trigonometry - Tim Hill 2013-10-16 This no-nonsense guide provides students and self-learners with a clear and readable study of trigonometry's most important ideas. Tim Hill's distraction-free approach combines decades of tutoring experience with the proven methods of his Russian math teachers. The result: learn in a few days what conventional schools stretch into months. - Teaches general principles that can be applied to a wide variety of problems. - Avoids the mindless and excessive routine computations that characterize conventional textbooks. - Treats trigonometry as a logically coherent discipline, not as a disjointed collection of techniques. - Restores proofs to their proper place to remove doubt, convey insight, and encourage precise logical thinking. - Omits digressions, excessive formalities, and repetitive exercises. - Covers all the trigonometry needed

to take a calculus course. - Includes problems (with all solutions) that extend your knowledge rather than merely reinforce it. Contents 1. A Few Basics 2. Radian Measure 3. The Trig Functions 4. Trig Values for Special Angles 5. Graphs of Trig Functions 6. The Major Formulas 7. Inverse Trig Functions 8. The Law of Cosines (and Sines) 9. Solutions 10. Trig Cheat Sheet

Practical Algebra - Bobson Wong 2022-04-26 The most practical, complete, and accessible guide for understanding algebra If you want to make sense of algebra, check out Practical Algebra: A Self-Teaching Guide. Written by two experienced classroom teachers, this Third Edition is completely revised to align with the Common Core Algebra I math standards used in many states. You'll get an overview of solving linear and quadratic equations, using ratios and proportions, decoding word problems, graphing and interpreting functions, modeling the real world with statistics, and other concepts found in today's algebra courses. This book also contains a brief review of pre-algebra topics, including arithmetic and fractions. It has concrete strategies that help diverse students to succeed, such as: over 500 images and tables that illustrate important concepts over 200 model examples with complete solutions almost 1,500 exercises with answers so you can monitor your progress Practical Algebra emphasizes making connections to what you already know and what you'll learn in the future. You'll learn to see algebra as a logical and consistent system of ideas and see how it connects to other mathematical topics. This book makes math more accessible by treating it as a language. It has tips for pronouncing and using mathematical notation, a glossary of commonly used terms in algebra, and a glossary of symbols. Along the way, you'll discover how different cultures around the world over thousands of years developed many of the mathematical ideas we use today. Since students nowadays can use a variety of tools to handle complex modeling

tasks, this book contains technology tips that apply no matter what device you're using. It also describes strategies for avoiding common mistakes that students make. By working through Practical Algebra, you'll learn straightforward techniques for solving problems, and understand why these techniques work so you'll retain what you've learned. You (or your students) will come away with better scores on algebra tests and a greater confidence in your ability to do math.

The Complete Idiot's Guide to Algebra - W. Michael Kelley 2004
From the author of the highly successful The Complete Idiot's Guide to Calculus comes the perfect book for high school and college students. Following a standard algebra curriculum, it will teach students the basics so that they can make sense of their textbooks and get through algebra class with flying colors.
Essential Geometry - Tim Hill 2020-02-11
This no-nonsense guide provides students and self-learners with a clear and readable study of geometry's most important ideas. Tim Hill's distraction-free approach combines decades of tutoring experience with the proven methods of his Russian math teachers. The result: learn in a few days what conventional schools stretch into months. Covers classical and analytic geometry. Teaches general principles that can be applied to a wide variety of problems. Avoids the mindless and excessive routine computations that characterize conventional textbooks. Treats geometry as a logically coherent discipline, not as a disjointed collection of techniques. Restores proofs to their proper place to remove doubt, convey insight, and encourage precise logical thinking. Omits digressions, excessive formalities, and repetitive exercises. Includes problems (with solutions) that extend your knowledge rather than merely reinforce it. Contents 1. Triangles 2. Circles 3. Cylinders 4. Cones 5. Spheres 6. Analytic Geometry 7. Solutions 8. Geometry Cheat Sheet About the

Author Tim Hill is a statistician living in Boulder, Colorado. He holds degrees in mathematics and statistics from Stanford University and the University of Colorado. Tim has written self-teaching guides for algebra, trigonometry, geometry, precalculus, advanced precalculus, permutations and combinations, debt, mortgages, and Excel pivot tables. When he's not crunching numbers, Tim climbs rocks, hikes canyons, and avoids malls.

All New Electronics Self-Teaching Guide - Harry Kybett 2011-02-23
For almost 30 years, this book has been a classic text for electronics enthusiasts. Now completely updated for today?s technology with easy explanations and presented in a more user-friendly format, this third edition helps you learn the essentials you need to work with electronic circuits. All you need is a general understanding of electronics concepts such as Ohm?s law and current flow, and an acquaintance with first-year algebra. The question-and-answer format,

illustrative experiments, and self-tests at the end of each chapter make it easy for you to learn at your own speed.
Chemistry - Richard Post 2020-08-20
THE QUICK AND PAINLESS WAY TO TEACH YOURSELF BASIC CHEMISTRY CONCEPTS AND TERMS Chemistry: A Self-Teaching Guide is the easy way to gain a solid understanding of the essential science of chemistry. Assuming no background knowledge of the subject, this clear and accessible guide covers the central concepts and key definitions of this fundamental science, from the basic structure of the atom to chemical equations. An innovative self-guided approach enables you to move through the material at your own pace—gradually building upon your knowledge while you strengthen your critical thinking and problem-solving skills. This edition features new and revised content throughout, including a new chapter on organic chemistry, designed to dramatically increase how fast you learn and how much you retain. This powerful

learning resource features: An interactive, step-by-step method proven to increase your understanding of the fundamental concepts of chemistry Learning objectives, practice questions, study problems, and a self-review test in every chapter to reinforce your learning An emphasis on practical concepts and clear explanations to ensure that you comprehend the material quickly Engaging end-of-chapter stories connecting the material to a relevant topic in chemistry to bring important concepts to life Concise, student-friendly chapters describing major chemistry concepts and terms, including the periodic table, atomic weights, chemical bonding, solutions, gases, solids, and liquids Chemistry: A Self-Teaching Guide is an ideal resource for high school or college students taking introductory chemistry courses, for students taking higher level courses needing to refresh their knowledge, and for those preparing for standardized chemistry and medical career admission tests.

The Math Teacher's Toolbox - Bobson Wong
2020-04-28
Math teachers will find the classroom-tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher's Toolbox series is an innovative, research-based resource providing teachers with instructional strategies for students of all levels and abilities. Each book in the collection focuses on a specific content area. Clear, concise guidance enables teachers to quickly integrate low-prep, high-value lessons and strategies in their middle school and high school classrooms. Every strategy follows a practical, how-to format established by the series editors. The Math Teacher's Toolbox contains hundreds of student-friendly classroom lessons and teaching strategies. Clear and concise chapters, fully aligned to Common Core math standards, cover the underlying research, required technology, practical classroom use, and modification of each high-value lesson and

strategy. This book employs a hands-on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses. Topics range from the planning of units, lessons, tests, and homework to conducting formative assessments, differentiating instruction, motivating students, dealing with "math anxiety," and culturally responsive teaching. Easy-to-read content shows how and why math should be taught as a language and how to make connections across mathematical units. Designed to reduce instructor preparation time and increase student engagement and comprehension, this book: Explains the usefulness, application, and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs, advanced students, and students with learning differences Offers real-world guidance for working with parents, guardians, and co-teachers The Math Teacher's Toolbox: Hundreds of Practical ideas to Support Your Students is an invaluable source of real-world lessons, strategies, and techniques for general education teachers and math specialists, as well as resource specialists/special education teachers, elementary and secondary educators, and teacher educators.