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KNOX HAIDEN

Prealgebra Royal Society of Chemistry
 While the books in this series are primarily designed for AMC competitors, they contain the most essential and indispensable concepts used throughout middle and high school mathematics. Some featured topics include key concepts such as equations, polynomials, exponential and logarithmic functions in Algebra, various synthetic and analytic methods used in Geometry, and important facts in Number Theory. The topics are grouped in lessons focusing on fundamental concepts. Each lesson starts with a few solved examples followed by a problem set meant to illustrate the content presented. At the end, the solutions to the problems are discussed with many containing multiple methods of approach. I recommend these books to not only contest participants, but also to young, aspiring mathletes in middle school who wish to consolidate their mathematical knowledge. I have personally used a few of the books in this collection to prepare some of my students for the AMC contests or to form a foundation for others. By Dr. Titu Andreescu US IMO Team Leader (1995 - 2002) Director, MAA American Mathematics Competitions (1998 - 2003) Director, Mathematical Olympiad Summer Program (1995 - 2002) Coach of the US IMO Team (1993 - 2006) Member of the IMO Advisory Board (2002 - 2006) Chair of the USAMO Committee (1996 - 2004) I love this book! I love the style, the selection of topics and the choice of problems to illustrate the ideas discussed. The topics are typical contest problem topics: divisors, absolute value, radical expressions, Veita's Theorem, squares, divisibility, lots of geometry, and some trigonometry. And the problems are delicious. Although the book is intended for high school students aiming to do well in national and state math contests like the American Mathematics Competitions, the problems are accessible to very strong middle school students. The book is well-suited for the teacher-coach interested in sets of problems on a given topic. Each section begins with several substantial solved examples followed by a varied list of problems ranging from easily accessible to very challenging. Solutions are provided for all the problems. In many cases, several solutions are provided. By Professor Harold Reiter Chair of MATHCOUNTS Question Writing Committee. Chair of SAT II Mathematics committee of the Educational Testing Service Chair of the AMC 12 Committee (and AMC 10) 1993 to 2000.
String Theory Demystified John Wiley & Sons
 The book consists of original research papers in the field of Technological Advancements in Construction. It covers such topics as non-destructive testing, structural health monitoring,

innovative composite materials, strengthening and rehabilitation of buildings and structures, seismic resilience of structures, thermal protection of buildings, construction and operation of buildings and structures in extreme climatic conditions, structural dynamics and vibration control, and green construction. The book contains latest information on structural mechanics of composite materials and structures, theoretical and computational modeling of new materials and structures, experimental and numerical analysis in building rehabilitation and strengthening, analytical, numerical and experimental methodologies for the analysis of multilayered structures, and advanced methods for seismic performance evaluation of building structures. The book includes original research and application papers of high academic level, where significant scientific novelty is clearly demonstrated. The book presents a valuable tool for researchers and construction professionals.

Writing Successful Science Proposals Springer Nature
 This book is essential in understanding, investing and risk managing the holy grail of investments - structured products. The book begins by introducing structured products by way of a basic guide so that readers will be able to understand a payoff graphic, read a termsheet or assess a payoff formula, before moving on to the key asset classes and their peculiarities. Readers will then move on to the more advanced subjects such as structured products construction and behaviour during their lifetime. It also explains how to avoid important pitfalls in products across all asset classes, pitfalls that have led to huge losses over recent years, including detailed coverage of counterparty risk, the fall of Lehman Brothers and other key aspects of the financial crisis related to structured products. The second part of the book presents an original approach to implementing structured products in a portfolio. Key features include: A comprehensive list of factors an investor needs to take into consideration before investing. This makes it a great help to any buyer of structured products; Unbiased advice on product investments across several asset classes: equities, fixed income, foreign exchange and commodities; Guidance on how to implement structured products in a portfolio context; A comprehensive questionnaire that will help investors to define their own investment preferences, allowing for a greater precision when facing investment decisions; An original approach determining the typical distribution of returns for major product types, essential for product classification and optimal portfolio implementation purposes; Written in a fresh, clear and understandable style, with many figures illustrating the products and very little mathematics. This book will enable you to better comprehend the use of structured products in everyday banking, quickly analyzing a product, assessing which of your clients it suits, and recognizing its major

pitfalls. You will be able to see the added value versus the cost of a product and if the payoff is compatible with the market expectations.

Competition Math for Middle School Abingdon Press

A textbook suitable for undergraduate courses. The materials are presented very explicitly so that students will find it very easy to read. A wide range of examples, about 500 combinatorial problems taken from various mathematical competitions and exercises are also included.

The Universe Within Princeton University Press

A detailed look at what really happens in the front office of an investment bank and why Trading floors have always fascinated people, but few understand the role they play in the world of finance today. Though markets rise and fall every day, the drivers of those are rarely explored. Those who understand the dynamics of trading floors will better understand the dynamics of global financial markets. This book reveals the key players on the floor, their roles and responsibilities, how they serve their clients, and how it all impacts the markets. It also explains important terminology, explains the world of trading both cash and derivatives, and much more. Includes a foreword by Gillian Tett, author of Fool's Gold: How Unrestrained Greed Corrupted a Dream, Shattered Global Markets and Unleashed a Catastrophe. Terri Duhon (www.terriduhon.co) is a financial market expert who in 2004 founded B&B Structured Finance Ltd, which provides expert consulting and financial markets training. Her time on the trading floor has been documented in the book Fool's Gold as well as by PBS's Frontline.

Start with Why Yale University Press

The Nicholas J. Healy Lectures on Admiralty Law takes place annually at New York University School. They commenced in 1992 with the aim of providing a forum for the scholarly consideration of maritime law and, delivered by expert academics and practitioners in the field, provide great insight into the development of admiralty law since then. This volume collects the seventh to thirteenth lectures, which were given from 2005 to 2015.

Twenty More Problem Solving Skills for Mathcounts Competitions Springer Nature

Physics for future world leaders Physics and Technology for Future Presidents contains the essential physics that students need in order to understand today's core science and technology issues, and to become the next generation of world leaders. From the physics of energy to climate change, and from spy technology to quantum computers, this is the only textbook to focus on the modern physics affecting the decisions of political leaders and CEOs and, consequently, the lives of every citizen. How practical are alternative energy sources? Can satellites really read license

plates from space? What is the quantum physics behind iPods and supermarket scanners? And how much should we fear a terrorist nuke? This lively book empowers students possessing any level of scientific background with the tools they need to make informed decisions and to argue their views persuasively with anyone—expert or otherwise. Based on Richard Muller's renowned course at Berkeley, the book explores critical physics topics: energy and power, atoms and heat, gravity and space, nuclei and radioactivity, chain reactions and atomic bombs, electricity and magnetism, waves, light, invisible light, climate change, quantum physics, and relativity. Muller engages readers through many intriguing examples, helpful facts to remember, a fun-to-read text, and an emphasis on real-world problems rather than mathematical computation. He includes chapter summaries, essay and discussion questions, Internet research topics, and handy tips for instructors to make the classroom experience more rewarding. Accessible and entertaining, *Physics and Technology for Future Presidents* gives students the scientific fluency they need to become well-rounded leaders in a world driven by science and technology. Leading universities that have adopted this book include: Harvard Purdue Rice University University of Chicago Sarah Lawrence College Notre Dame Wellesley Wesleyan University of Colorado Northwestern Washington University in St. Louis University of Illinois - Urbana-Champaign Fordham University of Miami George Washington University Some images inside the book are unavailable due to digital copyright restrictions.

[Social Statistics for a Diverse Society](#) Anchor

This book connects the dilemmas educators experience in daily practice with key theories, research and policy about democracy, ethics and equity in education. Illustrated through vignettes from practising teachers, as well as suggested questions and supplementary readings for each chapter, the authors recognise and explore the complex nature of the insoluble problems that face practising teachers in their everyday lives and how they can be understood in order to address them in a more elaborate manner. Divided into eight concise chapters, this book provides a much-needed comprehensive exploration of issues within the education discourse, as seen from a global perspective, such as: Teachers' understanding of their profession Political demands and the complexities of practice Schools' democratic values Performance and accountability Minority needs and majority rule Countering radicalisation, terrorism and misinformation. *Democracy and Teacher Education* is a fantastic resource for students in teacher education programmes, as well as teacher educators, who are looking to develop a critical understanding of the choices made within the education field in a more thoughtful and sensitive manner.

[Beast Academy Guide 2A](#) Createspace Independent Pub

Prealgebra prepares students for the rigors of algebra, and also teaches students problem-solving techniques to prepare them for prestigious middle school math contests such as MATHCOUNTS, MOEMS, and the AMC 8. Topics covered in the book include the properties of arithmetic, exponents, primes and divisors, fractions, equations and inequalities, decimals, ratios and proportions, unit conversions and rates, percents, square roots, basic geometry (angles, perimeter, area, triangles, and quadrilaterals), statistics, counting and probability, and more! The text is structured to inspire the reader to explore and develop new ideas. Each section starts with problems, giving the student a chance to solve them without help before proceeding. The text then includes solutions to these problems, through which algebraic techniques are taught. Important facts and powerful problem solving approaches are highlighted throughout the text. In addition to the instructional material, the book contains well over 1000 problems. The solutions manual contains full solutions to all of the problems, not just answers.

[Handbook of Surface Plasmon Resonance](#) Createspace Independent Publishing Platform

IN THIS STIRRING AND BEAUTIFULLY WRITTEN WAKE-UP CALL, psychiatrist Daniel Carlat exposes deeply disturbing problems plaguing his profession, revealing the ways it has abandoned its essential purpose: to understand the mind, so that psychiatrists can heal mental illness and not just treat symptoms. As he did in his hard-hitting and widely read New York Times Magazine article "Dr. Drug Rep," and as he continues to do in his popular watchdog newsletter, *The Carlat Psychiatry Report*, he writes with bracing honesty about how psychiatry has so largely forsaken the practice of talk therapy for the seductive—and more lucrative—practice of

simply prescribing drugs, with a host of deeply troubling consequences. Psychiatrists have settled for treating symptoms rather than causes, embracing the apparent medical rigor of DSM diagnoses and prescription in place of learning the more challenging craft of therapeutic counseling, gaining only limited understanding of their patients' lives. Talk therapy takes time, whereas the fifteen-minute "med check" allows for more patients and more insurance company reimbursement. Yet DSM diagnoses, he shows, are premised on a good deal less science than we would think. Writing from an insider's perspective, with refreshing forthrightness about his own daily struggles as a practitioner, Dr. Carlat shares a wealth of stories from his own practice and those of others that demonstrate the glaring shortcomings of the standard fifteen-minute patient visit. He also reveals the dangers of rampant diagnoses of bipolar disorder, ADHD, and other "popular" psychiatric disorders, and exposes the risks of the cocktails of medications so many patients are put on. Especially disturbing are the terrible consequences of overprescription of drugs to children of ever younger ages. Taking us on a tour of the world of pharmaceutical marketing, he also reveals the inner workings of collusion between psychiatrists and drug companies. Concluding with a road map for exactly how the profession should be reformed, *Unhinged* is vital reading for all those in treatment or considering it, as well as a stirring call to action for the large community of psychiatrists themselves. As physicians and drug companies continue to work together in disquieting and harmful ways, and as diagnoses—and misdiagnoses—of mental disorders skyrocket, it's essential that Dr. Carlat's bold call for reform is heeded.

[Fifty Lectures for American Mathematics Competitions](#) John Wiley & Sons

UNRAVEL the mystery of STRING THEORY Trying to understand string theory but ending up with your brain in knots? Here's your lifeline! This straightforward guide explains the fundamental principles behind this cutting-edge concept. String Theory Demystified elucidates the goal of the theory—to combine general relativity and quantum theory into a single, unified framework. You'll learn about classical strings, conformal field theory, quantization, compactification, and T duality. The book covers supersymmetry and superstrings, D-branes, the holographic principle, and cosmology. Hundreds of examples and illustrations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce learning. This fast and easy guide offers: Numerous figures to illustrate key concepts Sample problems with worked solutions Coverage of equations of motion, the energy-momentum tensor, and conserved currents A discussion of the Randall-Sundrum model A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, *String Theory Demystified* is your key to comprehending this theory of everything.

[The Art and Craft of Problem Solving](#) Simon and Schuster Why the Church must defend the truth. Our ongoing fascination with alternative Christianities is on display every time a never-before-seen gospel text is revealed, an archaeological discovery about Jesus makes front-page news, or a new work of fiction challenges the very foundations of the church. Now, in a timely corrective to this trend, renowned church historian Alister McGrath examines the history of subversive ideas, overturning common misconceptions that heresy is somehow more spiritual or liberating than traditional dogma. In so doing, he presents a powerful, compassionate orthodoxy that will equip the church to meet the challenge from renewed forms of heresy today. [Technological Advancements in Construction](#) McGraw Hill Professional

A notable contribution to our understanding of ourselves. This book explores the realm of human behavior in social situations and the way that we appear to others. Dr. Goffman uses the metaphor of theatrical performance as a framework. Each person in everyday social intercourse presents himself and his activity to others, attempts to guide and control the impressions they form of him, and employs certain techniques in order to sustain his performance, just as an actor presents a character to an audience. The discussions of these social techniques offered here are based upon detailed research and observation of social customs in many regions.

[Principles and Techniques in Combinatorics](#) Penguin

The cross is the central symbol of the Christian faith. But what

exactly did Jesus do to save us from our sins? Why was the cross necessary, and what does it mean for us today? In *Savior: What the Bible Says About the Cross*, Magrey deVega faithfully describes the need for reconciliation between humankind and a holy God through Jesus' death on the cross. The Bible uses many images to understand the meaning of Jesus' death and resurrection, and deVega guides us through these images to achieve a richer understanding of the Christian faith. By exploring the mystery of salvation through the cross, we can deepen our love for God and others and strengthen our commitment to follow Jesus. Components for this six-session study will include a book, leader guide, and a DVD with videos featuring deVega presenting each chapter's main ideas and themes. The leader guide will include instructions for showing and discussing these videos as an option for the group leader.

[Arthrogyrosis](#) Routledge

"Social Statistics for a Diverse Society provides students with a revealing introduction to social science statistics. This Fourth Edition maintains the same informal, conversational writing style, along with the many pedagogical features that made previous editions so successful. It is an excellent textbook for students taking their first course in social statistics and can also be used in a number of sociological research methods courses."--BOOK JACKET.

[Mathcounts Tips for Beginners](#) Cambridge University Press Challenge Math is being used by teachers to provide additional enrichment and develop student problem solving skills. Children love the fascinating stories that tie math and science together and show real life applications for math. Over 1000 problems at three levels of difficulty to challenge even the brightest students. Second edition answer section includes step by step instructions for solving the problems. Answer key included. (Grades 4-8)

[The Presentation of Self in Everyday Life](#) World Scientific Feeling hamstrung by your new Samsung? Figure out how to navigate your new phone in no time Your Samsung Galaxy comes packed with features you'll use every day, and Samsung Galaxy S21 For Dummies is your guide to exploring them. What do you want to do first? Send a text or email? Take photos and videos? Make a basic call? Play games? Shop? This handy guide can help you do all that and so much more. Get an overview of the buttons, screens, and apps that are essential to operating your new phone Manage your contacts so you can stay connected with calls, emails, or texts Surf the web and find new games and apps in the Google Play Store Customize your phone with ringtones, wallpaper, and awesome accessories Watch videos and movies, shoot your own videos, and take photos Boost your productivity with calendar, GPS, and productivity apps Secure your Samsung Galaxy with your face ID, thumbprint, and Screen Lock Not only does Samsung Galaxy S21 For Dummies describe features and walk you through steps to use your new phone, it also shows you what the screens look like and where to tap to make things happen. It's like having a Samsung expert at your elbow. So pick up your copy today to make the most of your Samsung smartphone.

[Samsung Galaxy S21 For Dummies](#) MIT Press

Beast Academy Guide 2A and its companion Practice 2A (sold separately) are the first part in the planned four-part series for 2nd grade mathematics. Book 2A includes chapters on place value, comparing, and addition.

[The Next Level](#) John Wiley & Sons

First published in 1990. Routledge is an imprint of Taylor & Francis, an informa company.

[Twenty Mock Mathcounts Target Round Tests](#) John Wiley & Sons

The "Best Relationship Book of 2008" is now in paperback Drs. Charles and Elizabeth Schmitz's award-winning book reveals how to sustain a long-term loving marriage. In addition to exploring the seven key ingredients that define a successful marriage—togetherness, truthfulness, respect and kindness, staying fit, joint finances, tactile communication, and surprise and unpredictability—the authors have included hundreds of insightful and practical interviews with happy couples. Focuses on what's right about a successful relationship, rather than what's wrong Written by a popular and very active couple known as "the marriage doctors," who lead lectures, training, workshops, and other events every week all over the country Contains candid interviews with a diverse collection of happily married couples from around the world This book offers a positive, upbeat approach to living happily ever after.

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