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Now in its seventh edition, Basic Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

This graduate textbook covers topics in statistical theory essential for graduate students preparing for work on a Ph.D. degree in statistics. This new edition has been revised and updated and in this fourth printing, errors have been ironed out. The first chapter provides a quick overview of concepts and results in measure-theoretic probability theory that are useful in statistics. The second chapter introduces some fundamental concepts in statistical decision theory and inference. Subsequent chapters contain detailed studies on some important topics: unbiased estimation, parametric estimation, nonparametric estimation, hypothesis testing, and confidence sets. A large number of exercises in each chapter provide not only practice problems for students,

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but also many additional results.

Learning to Teach Mathematics in the Secondary School covers a wide range of issues in the teaching of mathematics and gives supporting activities to students to enable them to translate theory into practice. Topics covered include: mathematics in the National Curriculum different teaching approaches using ICT mathematics education for pupils with special needs in mathematics assessment and public examinations teaching mathematics post-16 professional development.

The heyday of the classic sales force is over. Customers lead mobile and online lives, and successful companies use disruptive concepts to engage with the digitally empowered consumer. Disruptive Selling helps companies transform themselves to the new age of selling by matching supply to demand in an innovative way. Successful disruptive selling concepts must be based on the right combination of a series of factors, including an understanding of what motivates customers' corresponding value propositions, appropriate organizational structures, and the right overarching business culture. Disruptive Selling demystifies all of this, and more. Featuring case studies and examples from disruptive organizations such as AirBnB, Zalando and Bol.com, this book will empower readers to look critically at their organizations and commercial interaction models, and begin their own disruptive selling journeys. It contains a carefully researched, clearly explained framework to disruptive selling, and practical guidelines that will allow readers to get started immediately. Regardless of industry, sector or company-size,

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Disruptive Selling is the ultimate guide to remaining competitive and adaptive in a continually changing world. Basic Mathematics and Statistics for Science is a low-level introduction to the essential techniques students need to understand. It assumes little prior knowledge, and adopts a gentle approach that leads through examples in the book and website. No other text provides this range of educational support for science students. The integration between book and website provides study options that would be impossible through a book alone, and allows students to study in ways that suit their own circumstances and preferences. The combination of book and website also provides ready-prepared material for lectures, tutorials and computer practicals. Tutors can use the material to develop a variety of coherent programme using different learning styles. The book develops the mathematics and statistics through examples and questions that reflect the scientific context, and has succeeded in being relevant to a range of undergraduate science programmes.

This well-established series, the most popular in Nigeria, has been fully revised to reflect recent developments in mathematics education at junior secondary level and the views of the many users of the books. It has especially been revised to fully cover the requirements of the new NERDC Universal Basic Education Curriculum.

Mathematical Reasoning: Writing and Proof is a text for the first college mathematics course that introduces students to the processes of constructing and writing proofs and focuses on the formal development of mathematics. The primary goals of

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the text are to help students: Develop logical thinking skills and to develop the ability to think more abstractly in a proof oriented setting; develop the ability to construct and write mathematical proofs using standard methods of mathematical proof including direct proofs, proof by contradiction, mathematical induction, case analysis, and counterexamples; develop the ability to read and understand written mathematical proofs; develop talents for creative thinking and problem solving; improve their quality of communication in mathematics. This includes improving writing techniques, reading comprehension, and oral communication in mathematics; better understand the nature of mathematics and its language. Another important goal of this text is to provide students with material that will be needed for their further study of mathematics. Important features of the book include: Emphasis on writing in mathematics; instruction in the process of constructing proofs; emphasis on active learning. There are no changes in content between Version 2.0 and previous versions of the book. The only change is that the appendix with answers and hints for selected exercises now contains solutions and hints for more exercises. Have you ever wondered why a rainbow is curved? Or why left-handers aren't extinct? How a sunflower is like a synchronised swimmer, or a lightning bolt is like a blood vessel? The answer to all these

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questions and more can be summed up in one simple word: MATHS. As the inimitable Eddie Woo explains, maths is not just about numbers. Maths is about patterns, and our universe is extraordinarily patterned. With enthusiasm and wonder, Eddie is here to help us discover these patterns. With engaging clarity and entertaining anecdotes, Eddie demonstrates the intricacy of maths in all the things we love - from music in our iPods to our credit cards. Filled with humour and heart, this book will fascinate, entertain and illuminate the maths that surrounds us. This is a specially formatted fixed layout ebook that retains the look and feel of the print book.

LONGLISTED FOR THE ABIA GENERAL NON-FICTION BOOK OF THE YEAR 2019 PRAISE FOR EDDIE WOO "I never thought I'd read a maths book cover to cover, let alone sing its praises. Eddie Woo makes maths fun, accessible and relevant. Now we can all benefit from his extraordinary skill as a teacher." JENNY BROCKIE, journalist and TV host "Not just a great teacher, Woo's Wonderful World of Maths shows Eddie to be a storyteller too. Is there anything the Woo cannot do?" ADAM SPENCER, Ambassador for Mathematics, University of Sydney New York Times bestselling author Lauren Dane welcomes you back to Diablo Lake, Tennessee: a town founded by witches, governed by werewolves and brimming full of secrets It's autumn in Diablo Lake and the town is buzzing with preparations for

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Halloween, Samhain, Collins Hill Days, and the wedding of the newly elected mayor and her wolf shifter fiancé. Ruby Thorne can't think of a better time of year to come back for good and open the health clinic she's been planning for the last six years. Her connection to the town and its veins of magic have snapped back into place, flooding her with a power eager to jump to her call. She has a sense of rightness. This witch is exactly where she's supposed to be. So it's not much of a surprise that he comes back into her path just like he was meant to... Damon Dooley has spent the last few years learning how to run the pack at his older brother's right hand. There's been upheaval. Outrage. Violence. Old rules have created a silence so crushing it's collapsed the fabric of not just the wolf shifters, but the town as a whole. And yet, Ruby has returned. Man and wolf agree she needs to be in their life regularly, and before long, things move from serious to something magically deeper. Bound to one another heart and soul, both committed to what's best for Diablo Lake, Ruby backs Damon as he pushes for much-needed change. But when something falls into Ruby's lap and she learns the whole, terrible truth, secrets need to be spilled. How—and by whom—becomes the only question. Diablo Lake Book 1: Diablo Lake: Moonstruck Book 2: Diablo Lake: Protected Book 3: Diablo Lake: Awakened

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Results from national and international assessments indicate that school children in the United States are not learning mathematics well enough. Many students cannot correctly apply computational algorithms to solve problems. Their understanding and use of decimals and fractions are especially weak. Indeed, helping all children succeed in mathematics is an imperative national goal. However, for our youth to succeed, we need to change how we're teaching this discipline. *Helping Children Learn Mathematics* provides comprehensive and reliable information that will guide efforts to improve school mathematics from pre--kindergarten through eighth grade. The authors explain the five strands of mathematical proficiency and discuss the major changes that need to be made in mathematics instruction, instructional materials, assessments, teacher education, and the broader educational system and answers some of the frequently asked questions when it comes to mathematics instruction. The book concludes by providing recommended actions for parents and caregivers, teachers, administrators, and policy makers, stressing the importance that everyone work together to ensure a mathematically literate society. The classic introduction to the fundamentals of calculus Richard Courant's classic text *Differential and Integral Calculus* is an essential text for those preparing for a career in physics or applied math.

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Volume 1 introduces the foundational concepts of "function" and "limit", and offers detailed explanations that illustrate the "why" as well as the "how". Comprehensive coverage of the basics of integrals and differentials includes their applications as well as clearly-defined techniques and essential theorems. Multiple appendices provide supplementary explanation and author notes, as well as solutions and hints for all in-text problems. This self-contained introduction to modern cryptography emphasizes the mathematics behind the theory of public key cryptosystems and digital signature schemes. The book focuses on these key topics while developing the mathematical tools needed for the construction and security analysis of diverse cryptosystems. Only basic linear algebra is required of the reader; techniques from algebra, number theory, and probability are introduced and developed as required. This text provides an ideal introduction for mathematics and computer science students to the mathematical foundations of modern cryptography. The book includes an extensive bibliography and index; supplementary materials are available online. The book covers a variety of topics that are considered central to mathematical cryptography. Key topics include: classical cryptographic constructions, such as Diffie–Hellmann key exchange, discrete logarithm-based cryptosystems, the RSA cryptosystem, and digital

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signatures; fundamental mathematical tools for cryptography, including primality testing, factorization algorithms, probability theory, information theory, and collision algorithms; an in-depth treatment of important cryptographic innovations, such as elliptic curves, elliptic curve and pairing-based cryptography, lattices, lattice-based cryptography, and the NTRU cryptosystem. The second edition of *An Introduction to Mathematical Cryptography* includes a significant revision of the material on digital signatures, including an earlier introduction to RSA, Elgamal, and DSA signatures, and new material on lattice-based signatures and rejection sampling. Many sections have been rewritten or expanded for clarity, especially in the chapters on information theory, elliptic curves, and lattices, and the chapter of additional topics has been expanded to include sections on digital cash and homomorphic encryption. Numerous new exercises have been included.

A long-standing, best-selling, comprehensive textbook covering all the mathematics required on upper level engineering mathematics undergraduate courses. Its unique approach takes you through all the mathematics you need in a step-by-step fashion with a wealth of examples and exercises. The text demands that you engage with it by asking you to complete steps that you should be able to manage from previous examples or knowledge you have

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acquired, while carefully introducing new steps. By working with the authors through the examples, you become proficient as you go. By the time you come to trying examples on their own, confidence is high. Suitable for undergraduates in second and third year courses on engineering and science degrees.

This is the second year of a two-year math program designed to give students a firm mathematical understanding, both academically and spiritually. It features a biblical worldview, a solid foundation for high school math and real life, and has history, science and real-life connections. The focus is on the essential principles of algebra, coordinate graphing, probability, statistics, functions, and other important areas of mathematics.

Introductory Chemistry creates light bulb moments for students and provides unrivaled support for instructors! Highly visual, interactive multimedia tools are an extension of Kevin Revell's distinct author voice and help students develop critical problem solving skills and master foundational chemistry concepts necessary for success in chemistry.

New up-to-date edition of this influential classic on Markov chains in general state spaces. Proofs are rigorous and concise, the range of applications is broad and knowledgeable, and key ideas are accessible to practitioners with limited mathematical background. New commentary by Sean Meyn, including updated references, reflects developments

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since 1996.

The problem of fault diagnosis and reconfigurable control is a new and actually developing field of science and engineering. The subject becomes more interesting since there is an increasing demand for the navigation and control systems of aerospace vehicles, automated actuators etc. to be more safe and reliable. Nowadays, the problems of fault detection and isolation and reconfigurable control attract the attention the scientists in the world. The subject is emphasized in the recent international congresses such as IF AC World Congresses (San Francisco-1996, Beijing-1999, and Barcelona-2002) and IMEKO World Congresses (Tampere-1997, Osaka-1999, Vienna-2000), and also in the international conferences on fault diagnosis such as SAFEPROCESS Conferences (Hull-1997, Budapest-2000). The presented methods in the book are based on linear and nonlinear dynamic mathematical models of the systems. Technical objects and systems stated by these models are very large, and include various control systems, actuators, sensors, computer systems, communication systems, and mechanical, hydraulic, pneumatic, electrical and electronic devices. The analytical fault diagnosis techniques of these objects have been developed for several decades. Many of those techniques are based on the use of the results of modern control theory. This is natural, because it

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is known that fault diagnosis process in control systems is considered as a part of general control process. xxii In organization of fault diagnosis of control systems, the use of the concepts and methods of modern control theory including concepts of state space, modeling, controllability, observability, estimation, identification, and filtering is very efficient.

Since its first publication, *Teaching Secondary School Mathematics* has established itself as one of the most respected and popular texts for both pre-service and in-service teachers. This new edition has been fully revised and updated to reflect the major changes brought about by the introduction of the Australian Curriculum: Mathematics, as well as discussing significant research findings, the evolution of digital teaching and learning technologies, and the implications of changes in education policies and practices. The mathematical proficiencies that now underpin the Australian curriculum -- understanding, fluency, problem solving and reasoning -- are covered in depth in Part 1, and a new section is devoted to the concept of numeracy. The chapter on digital tools and resources has been significantly expanded to reflect the growing use of these technologies in the classroom, while the importance of assessment is recognised with new material on assessment for learning and as learning, along with a consideration

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of policy development in this area. Important research findings on common student misconceptions and new and effective approaches for teaching key mathematical skills are covered in detail. As per the first edition readers will find a practical guide to pedagogical approaches and the planning and enactment of lessons together with enhanced chapters on teaching effectively for diversity, managing issues of inequality and developing effective relationships with parents and the community. This book is the essential pedagogical tool for every emerging teacher of secondary school mathematics. 'The text offers an excellent resource for all of those involved in the preparation of secondary mathematics teachers, with links to research literature, exemplars of classroom practices, and instructional activities that encourage readers to actively examine and critique practices within their own educational settings.' Professor Glenda Anthony, Institute of Education, Massey University 'A rich and engaging textbook that covers all of the important aspects of learning to become an effective secondary mathematics teacher. The second edition of this text ... is further enhanced with updated references to the Australian Curriculum, NAPLAN, STEM, current Indigenous, social justice and gender inequity issues, and the place of Australian mathematics curricula on the world stage.' Dr Christine Ormond, Senior Lecturer, Edith Cowan

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University

Fifteen years ago, Mama said, starting her story, I came to Lagos from Ghana. I came to Nigeria because I was considered an alien in that country. The government of Ghana passed a law asking all aliens without resident permits to regularise their stay in the country'. This story of migration, identities and lives undermined by cynical and xenophobic politics pushed to its logical and terrible conclusion pertains to the Ghanaian orders of 'alien compliance' issued in 1970-1971, which determined to force all non-ethnic Ghanaians, so called illegal immigrants, to return to their - so stipulated - 'home'. The novel thus touches on concerns of deeper relevance to the politics of race and migration of the twenty first century.

A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

Discover how math applies to science, art, music, daily life, and moreApply what you're learning outside a textbook, and see God's handiwork in mathFocus is on multiplication, division, fractions, decimals, ratios, percentages, shapes, basic geometry, and more! Math is a real-life tool that points us to God and helps us explore His creation, yet it often comes across as dry facts and meaningless rules. Here at last is a curriculum that has a biblical worldview integrated throughout the text and problems, not just added as an afterthought. Students don't just learn how to manipulate numbers on paper, but starting with arithmetic and laying the groundwork for geometry and algebra (covered in year 2), this curriculum both firms up the foundational concepts and prepares students for upper-level math in a logical, step-by-

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step way that helps students understand concepts, build problem-solving skills, and see how different aspects of math connect.

This book uses elementary versions of modern methods found in sophisticated mathematics to discuss portions of "advanced calculus" in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level. Higher Mathematics for Science, Technology and Engineering is a textbook for undergraduate and postgraduate students undertaking science, technology, engineering and mathematics (STEM) courses. The book begins with an introduction to one variable functions, followed by chapters covering functional derivatives, partial differentiation, integrals, matrices and determinant theory, partial fractions and much more. Key features of this textbook include: -simple, easy-to-understand explanations of relevant concepts -a wide range of simple and complex examples -several figures where appropriate

This book contributes to the field of mathematical problem solving by exploring current themes, trends and research perspectives. It does so by addressing five broad and related dimensions: problem solving heuristics, problem solving and technology, inquiry and problem posing in mathematics education, assessment of and through problem solving, and the problem solving environment. Mathematical problem solving has long been recognized as an important aspect of mathematics, teaching mathematics, and learning mathematics. It has influenced mathematics curricula around the world, with calls for the teaching of problem solving as well as the teaching of mathematics through problem solving. And as such, it has been of interest to mathematics education researchers for as long as the field has existed. Research in this area has generally aimed at understanding and relating the processes involved in solving problems to students'

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development of mathematical knowledge and problem solving skills. The accumulated knowledge and field developments have included conceptual frameworks for characterizing learners' success in problem solving activities, cognitive, metacognitive, social and affective analysis, curriculum proposals, and ways to promote problem solving approaches. Oehlert's text is suitable for either a service course for non-statistics graduate students or for statistics majors. Unlike most texts for the one-term grad/upper level course on experimental design, Oehlert's new book offers a superb balance of both analysis and design, presenting three practical themes to students: • when to use various designs • how to analyze the results • how to recognize various design options Also, unlike other older texts, the book is fully oriented toward the use of statistical software in analyzing experiments.

8-11 yrs.

Mathematics for Senior Secondary Schools covers the Core Mathematics syllabus in three textbooks, one for each of the three Senior Secondary school years. 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

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books give the reader a global view of algebra and its role in mathematics as a whole.

Teachers make a difference. The success of any plan for improving educational outcomes depends on the teachers who carry it out and thus on the abilities of those attracted to the field and their preparation. Yet there are many questions about how teachers are being prepared and how they ought to be prepared. Yet, teacher preparation is often treated as an afterthought in discussions of improving the public education system.

Preparing Teachers addresses the issue of teacher preparation with specific attention to reading, mathematics, and science. The book evaluates the characteristics of the candidates who enter teacher preparation programs, the sorts of instruction and experiences teacher candidates receive in preparation programs, and the extent that the required instruction and experiences are consistent with converging scientific evidence. Preparing Teachers also identifies a need for a data collection model to provide valid and reliable information about the content knowledge, pedagogical competence, and effectiveness of graduates from the various kinds of teacher preparation programs. Federal and state policy makers need reliable, outcomes-based information to make sound decisions, and teacher educators need to know how best to contribute to the development of effective teachers. Clearer understanding of the content and character of effective teacher preparation is critical to improving it and to ensuring that the same critiques and questions are not being repeated 10 years from now.

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