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Number theory is one of the oldest branches of mathematics that is primarily concerned with positive integers. While it has long been studied for its beauty and elegance as a branch of pure mathematics, it has seen a resurgence in recent years with the advent of the digital world for its modern applications in both computer science and cryptography. *Number Theory: Step by Step* is an undergraduate-level introduction to number theory that assumes no prior knowledge, but works to gradually increase the reader's confidence and ability to tackle more difficult material. The strength of the text is in its large number of examples and the step-by-step explanation of each topic as it is introduced to help aid understanding the abstract mathematics of number theory. It is compiled in such a way that allows self-study, with explicit solutions to all the set of problems freely available online via the companion website. Punctuating the text are short and engaging historical profiles that add context for the topics covered and provide a dynamic background for the subject matter. This volume continues the work covered in *Core Maths or Mathematics - The Core Course for Advanced Level* to provide a full two-year course in Pure Mathematics for A-Level. *Space, Time, Matter, and Form* collects ten of David Bostock's essays on themes from Aristotle's *Physics*, four of them published here for the first time. The first five papers look at issues raised in the first two books of the *Physics*, centred on notions of matter and form, and the idea of substance as what persists through change. They also range over other of Aristotle's scientific works, such as his biology and psychology and the account of change in his *De Generatione et Corruptione*. The volume's remaining essays examine themes in later books of the *Physics*, including infinity, place, time, and continuity. Bostock argues that Aristotle's views on these topics are of real interest in their own right, independent of his notions of substance, form, and matter; they also raise some pressing problems of interpretation, which these essays seek to resolve. *An Invitation to Computational Homotopy* is an introduction to elementary algebraic topology for those with an interest in computers and computer programming. It expertly illustrates how the basics of the subject can be implemented on a computer through its focus on fully-worked examples designed to develop problem solving techniques. The transition from basic theory to practical computation raises a range of non-trivial algorithmic issues which will appeal to readers already familiar with basic theory and who are interested in developing computational aspects. The book covers a

subset of standard introductory material on fundamental groups, covering spaces, homology, cohomology and classifying spaces as well as some less standard material on crossed modules. These topics are covered in a way that hints at potential applications of topology in areas of computer science and engineering outside the usual territory of pure mathematics, and also in a way that demonstrates how computers can be used to perform explicit calculations within the domain of pure algebraic topology itself. The initial chapters include in-depth examples from data mining, biology and digital image analysis, while the later chapters cover a range of computational examples on the cohomology of classifying spaces that are likely beyond the reach of a purely paper-and-pen approach to the subject. An Invitation to Computational Homotopy serves as a self-contained and informal introduction to these topics and their implementation in the sphere of computer science. Written in a dynamic and engaging style, it skilfully showcases a range of useful machine computations, and will serve as an invaluable aid to graduate students working with algebraic topology. Following on from Introducing Pure Mathematics by Smedley and Wiseman, Further Pure Mathematics covers in one volume all the pure mathematics required by students taking further mathematics. It also provides the basics for mathematics encountered in Higher Education. A clear text is supported by worked examples, exercises, and examination questions. The two books will cover the requirements of Pure Mathematics as part of double-certification Mathematics for any examinations board. · Clearly written explanations and graded worked examples to help students when they are studying alone · Wide variety of exercises · Comprehensive selection of recent exam questions from all the major examination boards

The Nelson Mathematics for Cambridge International AS & A Level series is tailored to the needs of A and AS level students of the latest 9709 syllabus. Developed by a team of experienced examiners and international authors, it provides comprehensive coverage for this syllabus and effective preparation for the Cambridge exams. The Nelson Pure Mathematics 2 and 3 for Cambridge International A Level text is designed for students taking the P2 and P3 exam papers. It provides introductions to topics and step-by-step worked examples to aid students in their understanding of the course material. Regular summaries of formulae and key pieces of information help students to revise. Numerous exercises provide opportunities to practice learning and to embed and develop skills. Students are well equipped to reach their full potential, with practice exam papers providing opportunities for effective exam preparation. The Meaning of Success: Insights from Women at Cambridge makes a compelling case for a more inclusive definition of success. It argues that in order to recognise, reward and realise the talents of both women and men, a more meaningful definition of success is needed. Practical ways of achieving this are explored through interviews with female role models at the University of Cambridge. First-person stories bring alive the achievements and challenges women experience in their working lives, and the effect gender has on careers. The book stimulates a debate about how to bring about a more inclusive working environment. Dealing with mechanics and the solving of mechanical problems with the help of pure mathematics, this A-Level text introduces at an early stage an appreciation of the properties of vectors. Throughout the book problems are solved using vector methods where appropriate, and many worked examples are provided to illustrate each main development of a topic. A set of straightforward problems follows each section, and a selection of more challenging questions appears in the miscellaneous exercises at the end of most chapters, with multiple-choice questions on most topics. Written by the renowned author team of Bostock and Chandler, this best-selling textbook covers all major A Level Mathematics specifications. Suitable for all points of entry to Advanced Level with appropriate supporting material in the early sections of the books. Each chapter contains a variety of exercises and questions for practice and preparation. Extended summary sections reinforce and consolidate learning. A popular resource written by best-selling authors and completely in line with National Curriculum for 2001. For students reading Mathematics, either as part of a general degree or as an ancillary course for an Honours degree, the subject should be presented in as straightforward a manner as is consistent with a moderate standard of rigour. This course in algebra, co-ordinate geometry and calculus is designed to fulfil

these requirements for students at Universities, Polytechnics and Colleges of Technology. The book contains 350 worked examples and 1550 practice examples selected mainly from university examination papers. The practice examples have been carefully graded and some hints are given with the answers so that the book may be used for private study as well as for class work.

Intermediate Logic fills a serious gap in the range of university logic texts by offering a clear, reliable, general guide for students taking a second course in logic after completing a basic introduction. It will serve as an ideal follow-up to any of the standard introductory texts, and will give excellent preparation for advanced work in logical theory or applications of logic in philosophy, mathematics, or computing theory. - ;Intermediate Logic is an ideal text for anyone who has taken a first course in logic and is progressing to further study. It examines logical theory, rather than the applications of logic, and does not assume any specific technological grounding. The author introduces and explains each concept and term, ensuring that readers have a firm foundation for study. He provides a broad, deep understanding of logic by adopting and comparing a variety of different methods and approaches. In the first section, Bostock covers such fundamental notions as truth, validity, entailment, quantification, and decision procedures. Part two lays out a definitive introduction to four key logical tools or procedures: semantic tableaux, axiomatic proofs, natural deduction, and sequent calculi. The final section opens up new areas of existence and identity, concluding by moving from orthodox logic to examination of 'free logic'. Intermediate Logic provides an ideal secondary course in logic for university students, and a bridge to advanced study of such subjects as model theory, proof theory, and other specialized areas of mathematical logic. -

ST(P) Mathematics offers very useful support to teachers and pupils through the PoS for Key Stages 3 and 4. Sufficient text is given for pupils to use as a reminder of the main results and methods. Each book offers an ample supply of exercises to consolidate work covered by investigation, project, class discussion, class teaching etc. This graduate text shows how the computer can be used as a tool for research in number theory through numerical experimentation. Examples of experiments in binary quadratic forms, zeta functions of varieties over finite fields, elementary class field theory, elliptic units, modular forms, are provided along with exercises and selected solutions. An A-Level text following on from Introducing Mechanics by the same authors. The two books cover all the requirements for Mechanics as part of a double-certificate Mathematics for any examination board. A clear text is supported by worked examples, exercises, and examination questions. Pure Mathematics for Advanced Level, Second Edition is written to meet the needs of the student studying for the General Certificate of Education at Advanced Level. The text is organized into 22 chapters. Chapters 1-5 cover topics in algebra such as operations with real numbers, the binomial theorem, and the quadratic function and the quadratic equation. The principles, methods and techniques in calculus, trigonometry, and co-ordinate geometry are provided as well. Two new chapters have been added: Numerical Methods and Vectors. Mathematics students will find this book extremely useful. Analysis (sometimes called Real Analysis or Advanced Calculus) is a core subject in most undergraduate mathematics degrees. It is elegant, clever and rewarding to learn, but it is hard. Even the best students find it challenging, and those who are unprepared often find it incomprehensible at first. This book aims to ensure that no student need be unprepared. It is not like other Analysis books. It is not a textbook containing standard content. Rather, it is designed to be read before arriving at university and/or before starting an Analysis course, or as a companion text once a course is begun. It provides a friendly and readable introduction to the subject by building on the student's existing understanding of six key topics: sequences, series, continuity, differentiability, integrability and the real numbers. It explains how mathematicians develop and use sophisticated formal versions of these ideas, and provides a detailed introduction to the central definitions, theorems and proofs, pointing out typical areas of difficulty and confusion and explaining how to overcome these. The book also provides study advice focused on the skills that students need if they are to build on this introduction and learn successfully in their own Analysis courses: it explains how to understand definitions, theorems and proofs by relating them to examples and diagrams, how to think productively about

proofs, and how theories are taught in lectures and books on advanced mathematics. It also offers practical guidance on strategies for effective study planning. The advice throughout is research based and is presented in an engaging style that will be accessible to students who are new to advanced abstract mathematics. 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.

A child wanders too far into the Knysna Forest ... he never returns. Nine years later government officials working on a census find a white child living with a Coloured family in the mountains beyond the forest. They take him away from the stricken Fielia, who has brought him up as her son, and give him back to his 'original' family. Stunned and helpless, Benjamin waits for Fielia to reclaim him. But, powerless against authority, Fielia never comes. Benjamin has to grow up before he can go in search of the truth ...

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This companion to Core Maths for A-level covers all the work necessary for the mechanics component of all boards' syllabuses for A-level mathematics. Includes a section on matrices and transformations, this book features worked examples and exercises to illustrate concepts at every stage of its development. It caters for the "Pure Mathematics" content of various courses in Further Mathematics and also for preparation for the Advanced Extension Award. Written by the best selling authors this traditional and popular course provides all the necessary text, fully worked examples and graded exercises for complete success. Fully revised for the National Curriculum.

This textbook covers in one volume all topics required in the pure mathematics section of single subject A-Level Mathematics syllabuses in the UK, as well as a significant part of the work required by those studying for Further Mathematics and for A-Level. This textbook covers the requirements of students taking pure mathematics as part of a single-maths A-level exam. It assumes a starting point of the equivalent of Level 7 in the National Curriculum or GCSE Grade B/C. Part of the ST(P) graded series in mathematics, this book follows 1A and 2A and completes coverage of Levels 6 and 7 of the National Curriculum, and most of Level 8. Some of the work goes beyond Level 8. In particular, there is a large section on algebra which starts the preparation for the skills needed to cope with the algebra content of Level 10. The exercises are divided into three types of question. The first kind is aimed at helping pupils to understand the work, the second is for quicker workers, for extra practice or for later revision and the third is slightly more difficult, for those who have managed the first type fairly easily.

This compendium contains chapters on the structure, function and pathophysiology of axons in both the peripheral and central nervous systems. Within the context of aspects of axonal structure, function and pathophysiology, recent advances in the molecular neurobiology of axons are reviewed. This book provides an introduction to quantum theory primarily for students of mathematics. Although the approach is mainly traditional the discussion exploits ideas of linear algebra, and points out some of the mathematical subtleties of

the theory. Amongst the less traditional topics are Bell's inequalities, coherent and squeezed states, and introductions to group representation theory. Later chapters discuss relativistic wave equations and elementary particle symmetries from a group theoretical standpoint rather than the customary Lie algebraic approach. This book is intended for the later years of an undergraduate course or for graduates. It assumes a knowledge of basic linear algebra and elementary group theory, though for convenience these are also summarized in an appendix. The only two-level series that prepares students for success in both presentations and academic discussions, *Speech Communication Made Simple* takes an interactive, accessible approach to building confidence as a speaker. Students learn how to present in a variety of genres, effectively use voice and props, and lead or participate in discussions. With its lighthearted and engaging approach, the text helps students acquire speech communication and listening skills that they can apply immediately and throughout their lives. Features: Varied speech genres that range from personal story to persuasive. Broad array of projects including interviews and group discussions. Scaffolded approach that includes directed discussion of a model presentation; skill-building exercises for selecting a topic, organizing information, and more; practicing aloud; and finally, delivering a speech. Pronunciation Practice that focuses on American English pronunciation patterns that are difficult for most non-native speakers of English. Playing with Sayings section that presents idiomatic sayings in popular use and related activities to help students understand and use them to enhance their spoken communication. Useful language boxes that illustrate effective ways to begin speeches or participate in discussion. CD-ROM with MP3 audio that includes sample speeches and all pronunciation activities Teacher's manual (available separately at <http://pearsoneltusa.com/speechcom>) with teaching suggestions, answer keys, and quizzes. This volume presents in a pedagogical yet complete way correlated systems in one dimension. After an introduction to the basic concepts of correlated systems, it gives a step-by-step description of the techniques needed to treat one dimension, and discusses the resulting physics. NO description available

The Nelson Mathematics for Cambridge International AS & A Level series is tailored to the needs of A and AS level students of the latest 9709 syllabus. Developed by a team of experienced examiners and international authors, it provides comprehensive coverage for this syllabus and effective preparation for the Cambridge exams. The Nelson Pure Mathematics 1 for Cambridge International A Level text is designed for students taking the P1 exam paper. It provides introductions to topics and step-by-step worked examples to aid students in their understanding of the course material. Regular summaries and mixed exercises are included, enabling students to consolidate their learning. Students are well equipped to reach their full potential, with practice exam papers providing opportunities for effective exam preparation. This unique volume on modern jury systems presents in-depth coverage of juries in Australia, England, Canada, New Zealand, the Republic of Ireland and Northern Ireland, Scotland and the United States. Coverage involves civil as well as criminal juries. The book has enormous value for students of comparative law and for practitioners and policy makers who are concerned about issues such as free press versus fair trial', pretrial prejudice, racial or ethnic bias, and complex evidence. Designed to meet the Common Core requirements of the University of London Syllabus B, and other similar schemes offered by the major boards, this book incorporates both modern and effective traditional approaches to mathematical understanding. Worked examples and exercises support the text. An ELBS/LPBB edition is available. This new edition of the best-selling STP Mathematics series provides all the support you need to deliver the 2014 KS3 Programme of Study. These new student books retain the authoritative and rigorous approach of the previous editions, whilst developing students' problem-solving skills, helping to prepare them for the highest achievement at KS4. These student books are accompanied by online Kerboodle resources which include additional assessment activities, online digital versions of the student books and comprehensive teacher support.

Philosophy of Mathematics: An Introduction provides a critical analysis of the major philosophical issues and viewpoints in the concepts and methods of mathematics - from antiquity to the modern era. Offers beginning readers a critical appraisal of philosophical viewpoints throughout history

Gives a separate chapter to predicativism, which is often (but wrongly) treated as if it were a part of logicism Provides readers with a non-partisan discussion until the final chapter, which gives the author's personal opinion on where the truth lies Designed to be accessible to both undergraduates and graduate students, and at the same time to be of interest to professionals

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