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Core Mathematics Oxford University Press - Children

This must-have textbook provides wider reading and broad, underpinning knowledge for Level 3 students on a range of courses.

GCSE Geography Edexcel B World Scientific

This is the fourth book in the five book International Mathematics for the Middle Years series. Each full-colour student book in the series comes with an interactive student CD and includes access to online resources for both teachers and students. International Mathematics for the Middle Years has been developed with the international student in mind. This series is particularly beneficial to students studying the International Baccalaureate Middle Years Program. All examples and exercises take an international viewpoint, giving students an opportunity to learn Mathematics with a global perspective. The content is appropriate for international curricula and will meet the needs of all middle school students studying Mathematics.

Cambridge International AS & A Level Further Mathematics Further Pure Mathematics 1 Hachette UK Give students the confidence to identify connections between topics and apply their reasoning to mathematical problems, so as to develop a deeper understanding of mathematical concepts and their applications, with resources developed with subject specialists and MEI (Mathematics in Education and Industry). Exam Board: AQA Level: AS/A-level Subject: Mathematics First Teaching: September 2017 First Exam: June 2018 Give students the confidence to identify connections between topics and apply their reasoning to mathematical problems, so as to develop a deeper understanding of mathematical concepts and their applications, with resources developed with subject specialists and MEI (Mathematics in Education and Industry). - Prepare students for assessment with plenty of practice questions, worked examples and skill-focused exercises. - Help build connections between topics with points of interest and things to notice such as links to real world examples and noticing patterns in the mathematics. - Enhance understanding of problem-solving, proof and modelling with dedicated sections on these key areas. - Address the new statistics requirements with five dedicated statistics chapters and questions around the use of large data sets. - Supports the use of technology with activities based around the use of spreadsheets, graphing software and graphing calculators. - Provide clear paths of progression that combine pure and applied maths into a coherent whole. [Cambridge International AS and A Level Mathematics: Pure Mathematics 2 & 3 Coursebook](#) Heinemann

The original edition of Introduction to Nuclear and Particle Physics was used with great success for single-semester courses on nuclear and particle physics offered by American and Canadian universities at the undergraduate level. It was also translated into German, and used overseas. Being less formal but well-written, this book is a good vehicle for learning the more intuitive rather than formal aspects of the subject. It is therefore of value to scientists with a minimal background in quantum mechanics, but is sufficiently substantive to have been recommended for graduate students interested in the fields covered in the text. In the second edition, the material begins with an exceptionally clear development of Rutherford scattering and, in the four following chapters, discusses sundry phenomenological issues concerning nuclear properties and structure, and general applications of radioactivity and of the nuclear force. This is followed by two chapters dealing with interactions of particles in matter, and how these characteristics are used to detect and identify such particles. A chapter on accelerators rounds out the experimental aspects of the field. The final seven chapters deal with elementary-particle phenomena, both before and after the realization of the Standard Model. This is interspersed with discussion of symmetries in classical physics and in the quantum domain, bringing into full focus the issues concerning CP violation, isotopic spin, and other symmetries. The final three chapters are devoted to the Standard Model and to possibly new physics beyond it, emphasizing unification of forces, supersymmetry, and other exciting areas of current research. The book contains several appendices on related subjects, such as special relativity, the nature of symmetry groups, etc. There are also many examples and problems in the text that are of value in gauging the reader's

understanding of the material.

Introduction to Business Information Systems Hodder Education Created to accompany the Core Mathematics 4 edition of the Heinemann Modular Mathematics for Edexcel AS and A Level book, this student edition of the solutionbank gives your students access to complete worked solutions where they need them most - at home.

Further Pure Mathematics Pearson Education Ltd Motivating readers by making maths easier to learn, this work includes complete past exam papers and student-friendly worked solutions which build up to practice questions, for all round exam preparation. It also includes a Live Text CDROM which features fully worked solutions examined step-by-step, and animations for key learning points.

A Course of Pure Mathematics Level 3 BTEC National Public Service

After describing the functions of the PC and the role of computers in local and global networks, the authors explain the fundamentals of data management, as well as the support of firms' functions and processes through information processing. The concepts utilized are deployed in a multitude of modern and integrated application systems in manufacturing and service industries. These application examples make up the core of the book. Many application examples illustrate the methodologies addressed.

POWER ELECTRONICS: ESSENTIALS & APPLICATIONS (With CD) Heinemann

Master essential skills and boost progress in A-level Maths with extra support and practice for every topic. This book provides structured guidance through clear explanations, worked examples and practice questions. - Improve understanding with clear explanations, worked examples and links that highlight relationships between topics - Put skills into practice and check understanding with skills-focused and problem-solving questions, plus carefully structured multiple-choice questions with detailed answers online that explain each correct and incorrect answer - Build confidence and develop awareness of potential misconceptions with 'Be the examiner' exercises - Learn to apply GCSE knowledge to A-level concepts with questions that bridge the gap between Key Stages 4 and 5 - Identify and avoid common mistakes with worked solutions in the back of the book - Develop advanced calculator skills with links to extra online material designed to enhance understanding and develop checking strategies using a graphical calculator

[Introduction To Nuclear And Particle Physics \(2nd Edition\)](#) Pearson Education Ltd

This student book includes all four mandatory units plus eight popular optional units providing complete coverage for the BTEC Level 3 National Supplementary Award. Assignment activities give practice for all grading criteria for the units covered, with Edexcel's own assessment tips written by BTEC Level 3 National experts.

Computing with Foresight and Industry Heinemann Special Features: - Power semiconductor devices are viewed from the physics, circuit, modeling and thermal viewpoints for a better understanding of the devices. - AC-DC, DC-DC, DC-AC converters and magnetic devices are treated from both the conceptual and design perspectives. - A separate chapter is included that addresses the analysis and design of linear regulators. - A chapter is included to address the modeling methods to obtain dynamic models of power electronics systems. - The design of discrete domain controllers in both classical and state space approach are included which addresses the needs of power electronic systems. - Optimal and robust control design methods as applied to power electronics systems are addressed. - Discrete numerical algorithms for digital implementation with respect to power electronics systems are addressed in a separate chapter. - A separate chapter is devoted to the thermal aspects like heat sink sizing for power electronics systems. - Design integration by specifying and designing for reliability with power electronics system examples is another unique feature of this book. - The appendices include the following: o Derivation of the area product for a saturable-core transformer. o Representative list of commonly used core types and their physical parameters. o Representative list of commonly used wire gauges. o Laplace transforms and z-transforms of few time domain signals. o List of specifications for the induction motor used for controller design. o Description of all the object parameters for various electronic components from the reliability prediction viewpoint. Pedagogy includes: o 600+ illustrations and line diagrams. o 480+ descriptive questions. o 440+ objective questions. o 200+ unsolved problems. o 50+ explanatory examples and solved problems. Companion CD contains: - Reliability prediction toolbox - Bond graph simulation toolbox - Several circuit and design examples About The Book: This book on power electronics spans a wide knowledge base such as power devices, drives, circuit topologies, magnetics, system modeling, control configurations, digital processing, thermal and reliability aspects. The book has been broadly divided into two types of topics viz. (a) circuit-oriented aspects and (b) system-oriented aspects. The first seven chapters deal with circuit-oriented aspects of power electronics systems and the remaining chapters deal with system-oriented aspects like controls and reliability.

Further Pure Maths 1 Level 3 BTEC National Health and Social Care Updated for the 2004 specification, these new Core books are in full colour to ease the transition from GCSE to A Level. Tailor-made for the new specification and written by members of an experienced Senior Examining Team, you can be sure they provide everything students need to succeed. Teaching Mathematics to Children Cambridge University Press

Further Pure Maths 1 was written to provide thorough preparation for the revised 2004 specification. Based on the first editions, this series help you to prepare for the new exams.

Edexcel AS and a Level Modular Mathematics Statistics 1 S1 Pearson Education Ltd

A student-friendly and engaging resource for the 2016 Edexcel GCSE Geography B specification, this brand new course is written to match the demands of the specification. As well as providing thorough and rigorous coverage of the spec, this book is designed to engage students in their learning and to motivate them to progress.

[Decision Mathematics](#) Prentice Hall

Originally published in 2001, reissued as part of Pearson's modern classic series.

[Cambridge International As&a level Furth Maths Furth Pure Maths 1](#) MIT Press

Endorsed by Cambridge Assessment International Education for full syllabus coverage Foster a deeper understanding of theoretical concepts through clear guidance and opportunities for self-assessment throughout; covers the entire Cambridge International AS & A Level Chemistry syllabus (9701). - Navigate the different routes through the course with ease with clearly divided sections for AS and A Level. - Focus learning with learning outcomes clearly defined at the beginning of each section - Test knowledge and understanding with past paper and exam-style questions - Address the Key Concepts in the syllabus, which are clearly highlighted throughout the course The Revision and Practice CD included with every Student's Book provides interactive tests, summaries of each topic and advice on examination techniques.

Elementary Differential Equations and Boundary Value Problems, Binder Ready Version Springer Science & Business Media

An accessible introduction to nuclear and particle physics with equal coverage of both topics, this text covers all the standard topics in particle and nuclear physics thoroughly and provides a few extras, including chapters on experimental methods; applications of nuclear physics including fission, fusion and biomedical applications; and unsolved problems for the future. It includes basic concepts and theory combined with current and future applications. An excellent resource for physics and astronomy undergraduates in higher-level courses, this text also serves well as a general reference for graduate studies.

Mathematics and Computation Springer

Including student-friendly worked examples and solutions that lead up to practice questions, this title gives students revision advice, ideas, summaries and exam practice, with hints and tips. Edexcel AS and a Level Modular Mathematics Core Mathematics 1 C1 Heinemann Educational Secondary Division 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.

[Health & Social Care](#) Macmillan Publishing Company Everything students need to make the grade in BTEC Level 2 First Health and Social Care. This lively and comprehensive textbook covers all the core and optional units, making it suitable whether you are studying for the Certificate, Extended Certificate or Diploma. Each chapter covers a unit packed with:

- Activities to help with assignments - Advice on gathering evidence - Explanations of the BTEC pass, merit and distinction criteria - Further reading - Pointers to additional resources Written by authors with a wealth of experience in delivering, verifying and writing for BTECs, this textbook is packed with knowledge of the Health and Social Care sector and how to get the most of your course. This textbook is supported by a separately available Dynamic Learning package for tutors Health and Social Care John Wiley & Sons

A syllabus-specific textbook providing worked examples, exam-level questions and many practice exercises, in accordance to the new Edexcel AS and Advanced GCE specification.