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Comprehending as capably as union even more than further will provide each success. neighboring to, the message as competently as sharpness of this Cambridge Technicals Level 2 3 Information Technology can be taken as well as picked to act.

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An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject." —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, proba-

bility theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

The Anarchist Cookbook will shock, it will

disturb, it will provoke. It places in historical perspective an era when "Turn on, Burn down, Blow up" are revolutionary slogans of the day. Says the author "This book... is not written for the members of fringe political groups, such as the Weatherman, or The Minutemen. Those radical groups don't need this book. They already know everything that's in here. If the real people of America, the silent majority, are going to survive, they must educate themselves. That is the purpose of this book." In what the author considers a survival guide, there is explicit information on the uses and effects of drugs, ranging from pot to heroin to peanuts. There is detailed advice concerning electronics, sabotage, and surveillance, with data on everything from bugs to scramblers. There is a comprehensive chapter on natural, non-lethal, and lethal weapons, running the gamut from cattle prods to sub-machine guns to bows and arrows.

Exam board: AQA Level: A-level Subject: Computer Science First teaching: September 2015 First exams: Summer 2016 (AS); Summer 2017 (A-level) Strengthen your students' understanding and upgrade their confidence with our AQA Computer Science workbooks, full of self-contained exercises to consolidate knowledge and improve performance. Written by an experienced Computer Science author and teacher, these full colour workbooks provide stimulus materials on a number of AS and A-level topics, followed by sets of questions designed to develop and test skills in the unit. · With consolidation questions to reinforce knowledge and test understanding, these workbooks will raise your students' chances of achieving the highest grades. · Helps students identify their revision needs and see how to target the top grades using online answers for each

question. · Saves valuable preparation time and expense, with self-contained exercises that don't need photocopying and provide instant lesson and homework solutions for specialist and non-specialist teachers. · Encourages ongoing revision throughout the course as students progressively develop their skills in class and at home.

Exam Board: Cambridge Level: KS4 Subject: Sport First Teaching: September 2016 First Exam: June 2017 Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Sport, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Sport is matched exactly to the new specification and follows specialist pathways in coaching, leadership and physical education, fitness instructing, personal training, and sports management, development and leisure. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly Hodder Education have worked with OCR to make updates to our Cambridge Technicals textbooks to bring them more closely in line with the model assignment course requirements. We would like to let you know about a recent change to this textbook, updated pages which are now available free of charge as a PDF when you click on the 'Amended Pages'

link on the left of this webpage.

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Most functions that occur in mathematics cannot be used directly in computer calculations. Instead they are approximated by manageable functions such as polynomials and piecewise polynomials. The general theory of the subject and its application to polynomial approximation are classical, but piecewise polynomials have become far more useful during the last twenty years. Thus many important theoretical properties have been found recently and many new techniques for the automatic calculation of approximations to prescribed accuracy have been developed. This book gives a thorough and coherent introduction to the theory that is the basis of current approximation methods. Professor Powell describes and analyses the main techniques of calculation supplying sufficient motivation throughout the book to make it accessible to scientists and engineers who re-

quire approximation methods for practical needs. Because the book is based on a course of lectures to third-year undergraduates in mathematics at Cambridge University, sufficient attention is given to theory to make it highly suitable as a mathematical textbook at undergraduate or postgraduate level.

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.

This book is intended for researchers, policymakers, and practitioners interested in the dynamics and governance of low-carbon transitions. Drawing on the multi-level perspective, it develops a whole system reconfiguration approach that explains how the incorporation of multiple innovations can cumulatively reconfigure

existing systems. Focusing on UK electricity, heat, and mobility systems, it systematically analyses interactions between radical niche-innovations and existing (sub)systems across techno-economic, policy, and actor dimensions in the past three decades. Comparative analysis explains why the unfolding low-carbon transitions in these three systems vary in speed, scope, and depth. It evaluates to what degree these transitions qualify as Great Reconfigurations and assesses the future potential for and barriers to deeper low-carbon system transitions. Generalising across these systems, broader lessons are developed about the roles of incumbent firms, governance and politics, user engagement, wider public, and civil society organisations. This title is also available as Open Access on Cambridge Core.

Learn to program fast in 155 challenges, 54 examples and 85 pages This book is a 'gamified' approach to Python, aimed at supporting GCSE and KS3 students, with complete coverage of the GCSE programming requirements. There's no substitute for practice when it comes to learning a new skill! Python syntax is simple to learn, but becoming an expert in writing programs to solve different kinds of problems takes a bit longer. That's why this book has a short explanation of each new statement or technique, followed by one or more examples and then loads of practice challenges. Some of the challenges will take you only a minute or two, using the Python Interactive window to try out new statements and get immediate results. As you get further into the book, you will be challenged to write programs to perform different kinds of tasks - for example to find the results of a calculation, write a program for a simplified cash machine, sort a list of items into al-

phabetical order, or to record data in a text file to be read, formatted, and printed. The programming solutions to some challenges have been helpfully simplified for an inexperienced programmer to modify rather than to write from scratch. This builds your confidence in problem-solving. That's why 35 challenges consist of partially written programs for you to complete.

Target success in Cambridge Technical Level 3 Business with this proven formula for effective, structured revision. Key content coverage is combined with exam-style tasks and practical tips to create a revision guide that students can rely on to review, strengthen and test their knowledge. With My Revision Notes, every student can: - plan and manage a successful revision programme using the topic-by-topic planner - consolidate subject knowledge by working through clear and focused content coverage - test understanding and identify areas for improvement with regular 'Now Test Yourself' tasks and answers - improve exam technique through practice questions, expert tips and examples of typical mistakes to avoid - get exam ready with extra quick quizzes and answers to the practice questions available online.

Exam Board: Cambridge Level: KS4 Subject: Business First Teaching: September 2016 First Exam: June 2017 Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Business, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Business is matched exactly to the new specification and follows specialist pathways in human resources, marketing, accounting

and business planning. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly. Hodder Education have worked with OCR to make updates to our Cambridge Technicals textbooks to bring them more closely in line with the model assignment course requirements. We would like to let you know about a recent change to this textbook, updated pages which are now available free of charge as a PDF when you click on the 'Amended Pages' link on the left of this webpage.

Written by renowned author Anita Tull and experienced teacher and examiner Alison Palmer, this student book covers both Units of the WJEC Vocational Award in Hospitality and Catering. It is endorsed by WJEC, providing high quality support you can trust. // Suitable for Level 1 and 2 students, the depth of coverage, language and design of the book has been carefully tailored to their learning needs. // Content is presented in a visually engaging fashion, with bite-sized chunks of information together with bulleted lists, charts, tables, spider-grams and more to help ensure students engage with the content in a meaningful way. // Plenty of practical activities together with learning features such as 'Put it into Practice' and 'Scenarios' help students translate their knowledge and understanding to the world of work. // Short and extended answer style questions throughout help prepare students for assessment. // Stretch and challenge activities encourage students to work to-

wards achieving a higher grade.

Exam board: CACHE Level: 3 Subject: Health and Social Care First teaching: 2017 First exams: Various dates Master the essay-writing skills and concepts required to succeed in the Level 3 Extended Diploma with this CACHE-endorsed textbook. - Covers all 15 mandatory units of the qualification and the two synoptic external assessments. - Clearly outlines specific learning outcomes for each unit. - Develop students' ability to display evidence and effectively evaluate their performance with dedicated reflective activities. - Help learners develop independent research and writing skills in preparation for the external assessment and higher education.

Exam Board: Cambridge Level: KS4 Subject: Health & Social Care First Teaching: September 2016 First Exam: June 2017 Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Health & Social Care, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Health & Social Care is matched exactly to the new specification and follows specialist pathways in health science, social care and support, and working with children and young people. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the spe-

cification perfectly

Manage your own revision with step-by-step support from experienced teacher and examiner Kevin Wells. Use specific case studies to improve your knowledge of business processes and topics. Apply business terms accurately with the help of definitions and key words. -Plan and pace your revision with the revision planner -Use the expert tips to clarify key points -Avoid making typical mistakes with key expert advice -Test yourself with end-of-topic questions and answers and tick off each topic as you complete it -Get exam ready with last minute quick quizzes

at www.hoddereducation.co.uk/myrevisionnotes

Help students build knowledge and prepare for assessment with this essential classroom resource - the only textbook tailored to the Cambridge National Level 1/2 qualification in Health and Social Care. - Comprehensively covers every unit of the specification, allowing you to deliver a flexible and thorough combination of mandatory and optional content. - Prepare your students for the examined unit with detailed guidance, including sample questions and relevant underpinning knowledge. - Contextualises knowledge with activities and case studies throughout. - Engage your students and encourage interactive learning with group activities and class discussion topics

Ensure you navigate the MYP framework with confidence using a concept-driven and assessment-focused approach to PHE, presented in global contexts. - Develop conceptual understanding with key concepts and related concepts, set in global contexts, at the heart of each chapter. - Prepare for every aspect of assessment using support and tasks de-

signed by experienced educators. - Extend learning through research projects and interdisciplinary opportunities. - Apply global contexts in meaningful ways with an internationally-minded perspective.

Target success in the Cambridge National Certificate in Information Technologies with this essential classroom resource that will develop students' understanding of data, build their transferable skills and knowledge to become confident users of technology and help them prepare for the external assessment. Builds students' knowledge through clearly focused content and activities to assess understanding and aid progression Prepares your students for the examined assessment with opportunities to test and consolidate understanding Provides students with contexts to apply digital technology skills

First published in 1924, 'Which School?' brings together in one volume a wide range of information and advice, updated annually, on independent education for children up to the age of 18 years.

Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Health & Social Care, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Health & Social Care is matched exactly to the new specification and follows specialist pathways in health science, social care and support, and working with children and young people. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Pro-

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Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Business, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Business is matched exactly to the new specification and follows specialist pathways in human resources, marketing, accounting and business planning. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly

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Reinforce classroom learning and strengthen your students' understanding of the content with this student book written for the Cambridge National Level 1/2 in Enterprise and Marketing. Covering all three units, this essential student book will help to build students' knowledge and develop the skills required for success in Enterprise and Marketing. - This reliable and accessible textbook is structured to match the specification and provide your students with all the information they need, giving them the opportunity to build skills through appropriate ac-

tivities. - Builds students' skillsets with clearly-focused content to aid progression and questions to assess understanding. - Prepares your students for both the internal and external assessment with opportunities to test and consolidate understanding.

Target success in Cambridge National Level 1/2 Child Development with this proven formula for effective, structured revision. Key content coverage is combined with exam-style tasks and practical tips to create a revision guide that students can rely on to review, strengthen and test their knowledge. With My Revision Notes, every student can: - plan and manage a successful revision programme using the topic-by-topic planner - consolidate subject knowledge by working through clear and focused content coverage - test understanding and identify areas for improvement with regular 'Now Test Yourself' tasks and answers - improve exam technique through practice questions, expert tips and examples of typical mistakes to avoid.

Making the right choice of A levels is crucial. Not only will it affect your enjoyment of studying over the next two years but it also has implications for your choice of career, further training or higher education options. The tenth edition of this student-friendly guide has been revised and updated and includes study and employment options after 16 as well as at degree level. It also contains information on apprenticeships, an increasingly popular alternative to full-time higher education. Each subject entry covers: - What and how you study - Which A levels fit well together for competitive courses and careers - Related higher education courses - Career and training options after A levels and degree courses - Alternative qualifications such as the Internation-

al Baccalaureate.

Getting Started in Track and Field Athletics-advice, ideas and great stories for parents, coaches, teachers, and young athletes.

One of the most cited books in physics of all time, Quantum Computation and Quantum Information remains the best textbook in this exciting field of science. This 10th anniversary edition includes an introduction from the authors setting the work in context. This comprehensive textbook describes such remarkable effects as fast quantum algorithms, quantum teleportation, quantum cryptography and quantum error-correction. Quantum mechanics and computer science are introduced before moving on to describe what a quantum computer is, how it can be used to solve problems faster than 'classical' computers and its real-world implementation. It concludes with an in-depth treatment of quantum information. Containing a wealth of figures and exercises, this well-known textbook is ideal for courses on the subject, and will interest beginning graduate students and researchers in physics, computer science, mathematics, and electrical engineering.

Exam Board: Cambridge Level: KS4 Subject: Science First Teaching: September 2016 First Exam: June 2017 Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Applied Science, developed in partnership between OCR and Hodder Education; this textbook covers content in each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Applied Science is matched to the new specification and includes units for the specialist pathways in environmental science, food science and hu-

man science. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly

Science for Engineering offers an introductory textbook for students of engineering science and assumes no prior background in engineering. John Bird focuses upon examples rather than theory, enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles. This book includes over 580 worked examples, 1300 further problems, 425 multiple choice questions (with answers), and contains sections covering the mathematics that students will require within their engineering studies, mechanical applications, electrical applications and engineering systems. This new edition of Science for Engineering covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their exams. It has also been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications. Supported by free lecturer materials that can be found at www.routledge/cw/bird This resource includes full worked solutions of all 1300 of the further problems for lecturers/instructors use, and the full solutions and marking scheme for the fifteen revision tests. In addition, all illustrations will be available for downloading.

Support your teaching of the new Cambridge Technicals 2016 suite with Cam-

bridge Technical Level 3 Digital Media, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Digital Media is matched exactly to the new specification and follows specialist pathways in digital content for interactive media, and moving image and audio production. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly

Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Science for Technicians, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Science for Technicians is matched exactly to the new specification and follows specialist pathways in environmental science, food science, human science, and pharmaceutical science. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources

which match the specification perfectly

An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

Exam Board: Cambridge Level: Key Stage 4 Subject: IT First Teaching: September 2016 First Exam: June 2017

Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 IT, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 IT is matched exactly to the new specification and follows specialist pathways in IT Infrastructure Technician, Emerging Digital Technology Practitioner, Application Developer, and Data Analyst. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly

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Enhance your students' practical skills and develop their key content knowledge with this proven formula for effective

tive, structured revision. Target success in OCR's Cambridge Technical Level 3 Information Technology with this revision guide that brings together exam-style questions, revision tasks and practical tips to help students to review, strengthen and test their knowledge. With My Revision Notes, every student can:

- Enjoy an interactive approach to revision, with clear topic summaries that consolidate knowledge and related activities that put the content into context.
- Plan and manage a successful revision programme using the topic-by-topic planner.
- Build, practise and enhance exam skills by progressing through revision tasks and Test Yourself activities.
- Improve exam technique with helpful hints, tips and 'Now Test Yourself' questions on how to approach the exams. Please note: answers are not provided for the exam-style questions and 'Test Yourself' activities

A #1 NEW YORK TIMES BESTSELLER One of the most salient features of our culture is that there is so much bullshit. Everyone knows this. Each of us contributes his share. But we tend to take the situation for granted. Most people are rather confident of their ability to recognize bullshit and to avoid being taken in by it. So the phenomenon has not aroused much deliberate concern. We have no clear understanding of what bullshit is, why there is so much of it, or what functions it serves. And we lack a conscientiously developed appreciation of what it means to us. In other words, as Harry Frankfurt writes, "we have no theory." Frankfurt, one of the world's most influential moral philosophers, attempts to build such a theory here. With his characteristic combination of philosophical acuity, psychological insight, and wry humor, Frankfurt proceeds by exploring how bullshit and the related

concept of humbug are distinct from lying. He argues that bullshitters misrepresent themselves to their audience not as liars do, that is, by deliberately making false claims about what is true. In fact, bullshit need not be untrue at all. Rather, bullshitters seek to convey a certain impression of themselves without being concerned about whether anything at all is true. They quietly change the rules governing their end of the conversation so that claims about truth and falsity are irrelevant. Frankfurt concludes that although bullshit can take many innocent forms, excessive indulgence in it can eventually undermine the practitioner's capacity to tell the truth in a way that lying does not. Liars at least acknowledge that it matters what is true. By virtue of this, Frankfurt writes, bullshit is a greater enemy of the truth than lies are.

Reinforce classroom learning and strengthen your students' understanding of the content with this Student Book written for the Cambridge National Level 1 / 2 in Sport Science. Covering the two mandatory units and all of the optional units, this essential student book will help to build students' knowledge and develop the skills required for success in Sport Science.

- This reliable and accessible textbook is structured to match the specification and provide your students with all the information they need, giving them the opportunity to build skills through appropriate activities.
- Builds students' skillsets with clearly-focused content to aid progression and questions to assess understanding.
- Prepares your students for both the internal and external assessment with opportunities to test and consolidate understanding.

New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision. Written for

the OCR A Level Further Mathematics specification for first teaching from 2017, this print Student Book covers the Pure Core content for the second year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and con-

solidate learning, providing a clear and structured pathway for progressing through the course. It is underpinned by a strong pedagogical approach, with an emphasis on skills development and the synoptic nature of the course. Includes answers to aid independent study.