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Image Processing, Analysis, and Machine Vision Jul 25 2019

Neurobiology of TRP Channels Apr 01 2020 During the last two decades, there has been an explosion of research pertaining to the molecular mechanisms that allow for organisms to detect different stimuli that is an essential feature for their survival. Among these mechanisms, living beings need to be able to respond to different temperatures as well as chemical and physical stimuli. Thermally activated ion channels were proposed to be present in sensory neurons in the 1980s, but it was not until 1997 that a heat- and capsaicin- activated ion channel, TRPV1, was cloned and its function described in detail. This groundbreaking discovery led to the identification and characterization of several more proteins of the family of Transient Receptor Potential (TRP) ion channels. Intensive research has provided us with the atomic structures of some of these proteins, as well as understanding of their physiological roles, both in normal and pathological conditions. With chapters contributed by renowned experts in the field, *Neurobiology of TRP Channels* contains a state-of-the-art overview of our knowledge of TRP channels, ranging from structure to their functions in organismal physiology. Features: • Contains chapters on the roles of several TRP ion channels with a diversity of physiological functions, providing a complete picture of the widespread importance of these proteins. • Presents an overview of the structure of TRP channels, including the roles of these proteins in different physiological processes. • Discusses the roles of TRP channels in pathophysiological processes, further highlighting their importance. • Features several full color illustrations to allow the reader better comprehension of TRP channels. A volume in the *Frontiers in Neuroscience* series

Geography Through Enquiry May 03 2020

A Probabilistic Theory of Pattern Recognition Aug 18 2021 A self-contained and coherent account of probabilistic techniques, covering: distance measures, kernel rules, nearest neighbour rules, Vapnik-Chervonenkis theory, parametric classification, and feature extraction. Each chapter concludes with problems and exercises to further the readers understanding. Both research workers and graduate students will benefit from this wide-ranging and up-to-date account of a fast-

moving field.

Cambridge International AS & A Level Mathematics Probability & Statistics 1 Sep 18 2021 Exam board: Cambridge Assessment International Education Level: A-level Subject: Mathematics First teaching: September 2018 First exams: Summer 2020 Endorsed by Cambridge Assessment International Education to provide full support for Paper 5 of the syllabus for examination from 2020. Take mathematical understanding to the next level with this accessible series, written by experienced authors, examiners and teachers. - Improve confidence as a mathematician with clear explanations, worked examples, diverse activities and engaging discussion points. - Advance problem-solving, interpretation and communication skills through a wealth of questions that promote higher-order thinking. - Prepare for further study or life beyond the classroom by applying mathematics to other subjects and modelling real-world situations. - Reinforce learning with opportunities for digital practice via links to the Mathematics in Education and Industry's (MEI) Integral platform in the eTextbooks.* *To have full access to the eTextbooks and Integral resources you must be subscribed to both Dynamic Learning and Integral. To trial our eTextbooks and/or subscribe to Dynamic Learning, visit: www.hoddereducation.co.uk/dynamic-learning; to view samples of the Integral resources and/or subscribe to Integral, visit integralmaths.org/international Please note that the Integral resources have not been through the Cambridge International endorsement process. This book covers the syllabus content for Probability and Statistics 1, including representation of data, permutations and combinations, probability, discrete random variables and the normal distribution. Available in this series: Five textbooks fully covering the latest Cambridge International AS & A Level Mathematics syllabus (9709) are accompanied by a Workbook, and Student and Whiteboard eTextbooks. Pure Mathematics 1: Student Textbook (ISBN 9781510421721), Student eTextbook (ISBN 9781510420762), Whiteboard eTextbook (ISBN 9781510420779), Workbook (ISBN 9781510421844) Pure Mathematics 2 and 3: Student Textbook (ISBN 9781510421738), Student eTextbook (ISBN 9781510420854), Whiteboard eTextbook (ISBN 9781510420878), Workbook (ISBN 9781510421851) Mechanics: Student Textbook (ISBN 9781510421745), Student eTextbook (ISBN 9781510420953), Whiteboard eTextbook (ISBN 9781510420977), Workbook (ISBN 9781510421837) Probability & Statistics 1: Student Textbook (ISBN 9781510421752), Student eTextbook (ISBN 9781510421066), Whiteboard eTextbook (ISBN 9781510421097), Workbook (ISBN 9781510421875) Probability & Statistics 2: Student Textbook (ISBN 9781510421776), Student eTextbook (ISBN 9781510421158), Whiteboard eTextbook (ISBN 9781510421165), Workbook (9781510421882)

New Language Leader Nov 28 2019

Introduction to Machine Learning Dec 22 2021 Introduction -- Supervised learning -- Bayesian decision theory -- Parametric methods -- Multivariate methods -- Dimensionality reduction -- Clustering -- Nonparametric methods -- Decision trees -- Linear discrimination -- Multilayer perceptrons -- Local models -- Kernel machines -- Graphical models -- Brief contents -- Hidden markov models -- Bayesian estimation -- Combining multiple learners -- Reinforcement learning -- Design and analysis of machine learning experiments.

Oxford a Level Religious Studies for OCR Revision Guide Dec 30 2019 This Revision Guide offers a structured approach to revising for the new AS and A level exams in a single volume. With all essential content in concise points, guided activities to develop your evaluative skills, annotated sample answers and 60 practice questions with mark schemes, students can confidently prepare for their new exams.

A Concise Course in A-level Statistics Mar 13 2021 Written to cover the Statistics elements of an A-Level Mathematics course, this book has been updated to cover all Boards' syllabus requirements for first examination in 1996. It presents theory, supported throughout by worked examples, and further consolidation in the form of graded exercises.

OCR Chemistry Jan 11 2021 The Eighth Doctor faces new perils in this bumper collection of classic comic adventures This volume features eight amazing stories: "The Fallen," "Unnatural Born Killers," "The Road to Hell," "The Company of Thieves," "The Glorious Dead," "The Autonomy Bug," "Happy Deathday," and "TV Action " Also included are two bonus stories from the early days of "Doctor Who Weekly," "Throwback: The Soul of a Cyberman" and "Ship of Fools," telling the origins of Kroton the Cyberman And, a special six-page, behind-the-scenes feature where writers Scott Gray, Alan Barnes, and Adrian Salmon reveal background information on the stories' origins, alongside never-before-seen sketches and character designs from Salmon and fellow artists

Martin Geraghty and Roger Langridge.

A Concise Course in Advanced Level Statistics Jun 27 2022 New in this edition is a 20 page section on the use of ICT resources in teaching and learning about statistics. The book also includes over 300 worked examples and advice on how to break down calculations into easy stages.

Principles of Mathematical Analysis Jan 29 2020 The third edition of this well known text continues to provide a solid foundation in mathematical analysis for undergraduate and first-year graduate students. The text begins with a discussion of the real number system as a complete ordered field. (Dedekind's construction is now treated in an appendix to Chapter I.) The topological background needed for the development of convergence, continuity, differentiation and integration is provided in Chapter 2. There is a new section on the gamma function, and many new and interesting exercises are included. This text is part of the Walter Rudin Student Series in Advanced Mathematics.

A Level Mathematics for OCR A Student Book 1 (AS/Year 1) Oct 20 2021 New 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision. Written for the OCR AS/A Level Mathematics specifications for first teaching from 2017, this print Student Book covers the content for AS and the first year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and consolidate 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.

Document Analysis and Recognition – ICDAR 2021 Oct 27 2019 This four-volume set of LNCS 12821, LNCS 12822, LNCS 12823 and LNCS 12824, constitutes the refereed proceedings of the 16th International Conference on Document Analysis and Recognition, ICDAR 2021, held in Lausanne, Switzerland in September 2021. The 182 full papers were carefully reviewed and selected from 340 submissions, and are presented with 13 competition reports. The papers are organized into the following topical sections: extracting document semantics, text and symbol recognition, document analysis systems, office automation, signature verification, document forensics and provenance analysis, pen-based document analysis, human document interaction, document synthesis, and graphs recognition.

Core Mathematics 2 Oct 08 2020 Easing the transition from GCSE to AS level, this textbook meets the 2004 Edexcel specifications and provides numerous worked examples and solutions to aid understanding of key concepts.

Edexcel Chemistry Dec 10 2020 Revise for AS & A2 Biology with confidence! Providing complete study support throughout the two A Level years, this Edexcel Chemistry study guide matches the curriculum content and provides in-depth course coverage. Written by experienced AS and A2 examiners this book includes invaluable advice on how to get the best results in the exams. Providing plenty of exam practice and frequent progress checks and questions to consolidate learning, this AS & A2 Edexcel Chemistry study guide contains invaluable advice and preparation for the exam. Extensive coverage of the Edexcel course: * AS & A2 specification checklists to organise your studies * tick boxes to record your progress and plan your revision * in-depth coverage of core AS & A2 topics Also included in this book: * examiner's tips that reveal how to achieve higher marks * exam board labels that allow students to identify content relevant to their course * topics subdivided into short, manageable sections * highlighted key points and terminology, and examiner's hints to offer guidance * progress check questions to test recall and understanding * sample questions and model answers that reveal what examiners are looking for * exam-style questions and answers that provide crucial exam practice

Greek to GCSE: Part 1 Aug 25 2019 First written in response to a JACT survey of over 100 schools, and now endorsed by OCR, this textbook has become a standard resource for students in the UK and for readers across the world who are looking for a clear and thorough introduction to the language of the ancient Greeks. Revised throughout and enhanced by coloured artwork and text features, this edition will support the new OCR specification for Classical Greek (first teaching 2016). Part 1 covers the basics and is self-contained, with its own reference section. It covers the main declensions, a range of active tenses and a vocabulary of 250 Greek words to be learned. Pupil confidence is built up by constant consolidation of the material covered. After the preliminaries, each chapter concentrates on stories with one source or subject: Aesop, Homer's Odyssey and Alexander the Great, providing an excellent introduction to Greek

culture alongside the language study. Written by a long-time school teacher and examiner, this two-part course is based on experience of what pupils find difficult, concentrating on the essentials and on the understanding of principles in both accidence and syntax: minor irregularities are postponed and subordinated so that the need for rote learning is reduced. It aims to be user-friendly, but also to give pupils a firm foundation for further study.

An Introduction to Criminological Theory Nov 08 2020 This book provides a comprehensive and up-to-date introduction to criminological theory for students taking courses in criminology at both undergraduate and postgraduate level. Building on previous editions, this book presents the latest research and theoretical developments. The text is divided into five parts, the first three of which address ideal type models of criminal behaviour: the rational actor, predestined actor and victimized actor models. Within these, the various criminological theories are located chronologically in the context of one of these different traditions, and the strengths and weaknesses of each theory and model are clearly identified. The fourth part of the book looks closely at more recent attempts to integrate theoretical elements from both within and across models of criminal behaviour, while the fifth part addresses a number of key recent concerns of criminology: postmodernism, cultural criminology, globalization and communitarianism, the penal society, southern criminology and critical criminology. All major theoretical perspectives are considered, including: classical criminology, biological and psychological positivism, labelling theories, feminist criminology, critical criminology and left realism, situation action, desistance theories, social control theories, the risk society, postmodern condition and terrorism. The new edition also features comprehensive coverage of recent developments in criminology, including 'the myth of the crime drop', the revitalization of critical criminology and political economy, shaming and crime, defiance theory, coerced mobility theory and new developments in social control and general strain theories. This revised and expanded fifth edition of *An Introduction to Criminological Theory* includes chapter summaries, critical thinking questions, policy implications, a full glossary of terms and theories and a timeline of criminological theory, making it essential reading for those studying criminology and taking courses on theoretical criminology, understanding crime, and crime and deviance

Exploring Omnichannel Retailing Jul 17 2021 This book compiles the current state of knowledge on omnichannel retailing, a new concept in which all sales and interaction channels are considered together, and which aims to deliver a seamless customer experience regardless of the channel. It highlights case studies and examples related to each of the many barriers to an omnichannel approach, demonstrating not just success stories, but also failures. While omnichannel has already been recognized as an emerging retail trend, the articles in this book fill an important gap in research on the topic. Providing readers with essential insights on the omnichannel strategy and its implementation, the book will also stimulate academic discussion on this emerging trend.

Introduction to Information Retrieval Jul 29 2022 Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

Foundations of Machine Learning, second edition Nov 20 2021 A new edition of a graduate-level machine learning textbook that focuses on the analysis and theory of algorithms. This book is a general introduction to machine learning that can serve as a textbook for graduate students and a reference for researchers. It covers fundamental modern topics in machine learning while providing the theoretical basis and conceptual tools needed for the discussion and justification of algorithms. It also describes several key aspects of the application of these algorithms. The authors aim to present novel theoretical tools and concepts while giving concise proofs even for relatively advanced topics. *Foundations of Machine Learning* is unique in its focus on the analysis and theory of algorithms. The first four chapters lay the theoretical foundation for what follows; subsequent chapters are mostly self-contained. Topics covered include the Probably Approximately Correct (PAC) learning framework; generalization bounds based on Rademacher complexity and VC-dimension; Support Vector Machines

(SVMs); kernel methods; boosting; on-line learning; multi-class classification; ranking; regression; algorithmic stability; dimensionality reduction; learning automata and languages; and reinforcement learning. Each chapter ends with a set of exercises. Appendixes provide additional material including concise probability review. This second edition offers three new chapters, on model selection, maximum entropy models, and conditional entropy models. New material in the appendixes includes a major section on Fenchel duality, expanded coverage of concentration inequalities, and an entirely new entry on information theory. More than half of the exercises are new to this edition.

Statistics 2 (International) May 15 2021 Written to match the contents of the Cambridge syllabus. Statistics 2 corresponds to unit S2. It covers the Poisson distribution, linear combinations of random variables, continuous random variables, sampling and estimation, and hypothesis tests.

A grammar of Yakkha Aug 06 2020 This grammar provides the first comprehensive grammatical description of Yakkha, a Sino-Tibetan language of the Kiranti branch. Yakkha is spoken by about 14,000 speakers in eastern Nepal, in the Sankhuwa Sabha and Dhankuta districts. The grammar is based on original fieldwork in the Yakkha community. Its primary source of data is a corpus of 13,000 clauses from narratives and naturally-occurring social interaction which the author recorded and transcribed between 2009 and 2012. Corpus analyses were complemented by targeted elicitation. The grammar is written in a functional-typological framework. It focusses on morphosyntactic and semantic issues, as these present highly complex and comparatively under-researched fields in Kiranti languages. The sequence of the chapters follows the well-established order of phonological, morphological, syntactic and discourse-structural descriptions. These are supplemented by a historical and sociolinguistic introduction as well as an analysis of the complex kinship terminology. Topics such as verbal person marking, argument structure, transitivity, complex predication, grammatical relations, clause linkage, nominalization, and the topography-based orientation system have received in-depth treatment. Wherever possible, the structures found were explained in a historical-comparative perspective in order to shed more light on how their particular properties have emerged.

Economy, Society and Public Policy Jun 03 2020 In order to be well-governed, a democracy needs voters who are fluent in the language of economics and who can do some quantitative analysis of social and economic policy. We also need a well-trained cadre of researchers and journalists who have more advanced skills in these fields. Many students in other disciplines are drawn to economics so that they can engage with policy debates on environmental sustainability, inequality, the future of work, financial instability, and innovation. But, when they begin the study of economics, they find that courses appear to have little to do with these pressing policy matters, and are designed primarily for students who want to study the subject as their major, or even for those destined to go on to post-graduate study in the field. The result: policy-oriented students often find they have to choose between a quantitative and analytical course of study - economics - that is only minimally policy oriented in content and that downplays the insights of other disciplines, or a policy and problem-oriented course of study that gives them little training in modelling or quantitative scientific methods. *Economy, Society, and Public Policy* changes this. It has been created specifically for students from social science, public policy, business studies, engineering, biology, and other disciplines who are not economics majors. If you are one of these students, we want to engage, challenge, and empower you with an understanding of economics. We hope you will acquire the tools to articulate reasoned views on pressing policy problems. You may even decide to take more courses in economics as a result. The book is also being used successfully in courses for economics, business, and public policy majors, as well as in economics modules for masters' courses in Public Policy and in Philosophy, Politics and Economics (PPE). This textbook--the print complement to CORE's open-access online eBook--is the result of a worldwide collaboration among researchers, educators, and students who are committed to bringing the socially relevant insights of economics to a broader audience.

Drug Resistance in Cancer Cells Apr 25 2022 It was estimated that in 2008, 1,437,180 patients would receive a new cancer diagnosis and 565,650 individuals would die of cancer (Jemal et al. 2008). Since the vast majority of patients dying of cancer will have had anticancer therapy, both conventional chemotherapy and novel targeted therapy, it can be concluded that these patients are dying with drug resistant cancer. The term multidrug resistance is also apt - in that these patients die after having undergone multiple rounds of different and structurally unrelated cancer therapies. However, for some, the concept of multidrug resistance is a worn out idea, stemming from disappointment with the drug resistance reversal strategies that were carried out in the 1990s using pump inhibitors

to block drug resistance mediated by P-glycoprotein, product of the MDR-1 gene. However, if one takes the larger definition – multidrug resistance as simultaneous resistance to multiple structurally unrelated anticancer therapies – its existence cannot be denied. The purpose of this book is to explore new concepts related to drug resistance in cancer, including resistance to the new molecularly targeted agents. Perhaps new terminology is needed for resistance that occurs following therapy with the targeted agents: Novel Targeted Agent Resistance (NTR). Alternatively, we can return to the original definition of multidrug resistance as simply the resistance to multiple agents that occurs in the course of normal cancer progression. This resistance is likely to be mediated by many factors.

Gaussian Processes for Machine Learning Apr 13 2021 A comprehensive and self-contained introduction to Gaussian processes, which provide a principled, practical, probabilistic approach to learning in kernel machines. Gaussian processes (GPs) provide a principled, practical, probabilistic approach to learning in kernel machines. GPs have received increased attention in the machine-learning community over the past decade, and this book provides a long-needed systematic and unified treatment of theoretical and practical aspects of GPs in machine learning. The treatment is comprehensive and self-contained, targeted at researchers and students in machine learning and applied statistics. The book deals with the supervised-learning problem for both regression and classification, and includes detailed algorithms. A wide variety of covariance (kernel) functions are presented and their properties discussed. Model selection is discussed both from a Bayesian and a classical perspective. Many connections to other well-known techniques from machine learning and statistics are discussed, including support-vector machines, neural networks, splines, regularization networks, relevance vector machines and others. Theoretical issues including learning curves and the PAC-Bayesian framework are treated, and several approximation methods for learning with large datasets are discussed. The book contains illustrative examples and exercises, and code and datasets are available on the Web. Appendixes provide mathematical background and a discussion of Gaussian Markov processes.

Pure Mathematics 2 and 3 (International) Jul 05 2020 Written to match the contents of the Cambridge syllabus. Pure Mathematics 2 corresponds to units P2 and P3. It covers algebra, logarithmic and exponential functions, trigonometry, differentiation, integration, numerical solution of equations, vectors, differential equations and complex numbers.

Fundamentals of Computer Programming with C# Nov 01 2022 The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation in the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C#/.NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers led by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The book does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations and other resources from <http://introprogramming.info>. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published:

Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site: <http://www.introprogramming.info> License: CC-Attribution-Share-Alike Tags: free, programming, book, computer programming, programming fundamentals, ebook, book programming, C#, CSharp, C# book, tutorial, C# tutorial; programming concepts, programming fundamentals, compiler, Visual Studio, .NET, .NET Framework, data types, variables, expressions, statements, console, conditional statements, control-flow logic, loops, arrays, numeral systems, methods, strings, text processing, StringBuilder, exceptions, exception handling, stack trace, streams, files, text files, linear data structures, list, linked list, stack, queue, tree, balanced tree, graph, depth-first search, DFS, breadth-first search, BFS, dictionaries, hash tables, associative arrays, sets, algorithms, sorting algorithm, searching algorithms, recursion, combinatorial algorithms, algorithm complexity, OOP, object-oriented programming, classes, objects, constructors, fields, properties, static members, abstraction, interfaces, encapsulation, inheritance, virtual methods, polymorphism, cohesion, coupling, enumerations, generics, namespaces, UML, design patterns, extension methods, anonymous types, lambda expressions, LINQ, code quality, high-quality code, high-quality classes, high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology, 9789544007737, 9544007733

A Treatise on the Mathematical Theory of Elasticity Feb 21 2022 The most complete single-volume treatment of classical elasticity, this text features extensive editorial apparatus, including a historical introduction. Topics include stress, strain, bending, torsion, gravitational effects, and much more. 1927 edition.

Python Cookbook Aug 30 2022 If you need help writing programs in Python 3, or want to update older Python 2 code, this book is just the ticket. Packed with practical recipes written and tested with Python 3.3, this unique cookbook is for experienced Python programmers who want to focus on modern tools and idioms. Inside, you'll find complete recipes for more than a dozen topics, covering the core Python language as well as tasks common to a wide variety of application domains. Each recipe contains code samples you can use in your projects right away, along with a discussion about how and why the solution works. Topics include: Data Structures and Algorithms Strings and Text Numbers, Dates, and Times Iterators and Generators Files and I/O Data Encoding and Processing Functions Classes and Objects Metaprogramming Modules and Packages Network and Web Programming Concurrency Utility Scripting and System Administration Testing, Debugging, and Exceptions C Extensions

Dungeons of Dread: S Series Classic Adventure Compilation Jun 23 2019 Dungeons of Dread is a hardcover collection of four classic, stand-alone Advanced Dungeons & Dragons(tm) adventure modules -- S1 Tomb of Horrors, S2 White Plume Mountain, S3 Expedition to the Barrier Peaks, and S4 The Lost Caverns of Tsojcanth -- complete with original black-and-white interior art.

Understanding Machine Learning May 27 2022 Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Speech & Language Processing Mar 25 2022

Teaching Primary Geography Sep 26 2019 Written with reference to the 2007 Professional Standards for the Award of QTS and initiatives such as the Primary National Strategy, each chapter offers practical guidance on topics such as planning, assessment and the creation of resources. It provides summaries of key topics in primary geography, including the study of places, environmental sustainability, learning beyond the classroom, global issues, citizenship and cross-curricular approaches to promote children's subject knowledge, well-being and learning within primary geography. With research summaries, practical and reflective tasks, and classroom examples, this book helps trainees and NQTs teach primary geography confidently and creatively throughout the primary school.

Advanced Problems in Mathematics: Preparing for University Mar 01 2020 This book is intended to help candidates prepare for entrance examinations in mathematics and scientific subjects, including STEP (Sixth Term Examination Paper). STEP is an examination used by Cambridge colleges as the basis for conditional offers. They are also used by Warwick University, and many other mathematics departments recommend that their applicants practice on the past papers even if they do not take the examination. Advanced Problems in Mathematics is recommended as preparation for any undergraduate mathematics course, even for students who do not plan to take the Sixth Term Examination Paper. The questions analysed in this book are all based on recent STEP questions

selected to address the syllabus for Papers I and II, which is the A-level core (i.e. C1 to C4) with a few additions. Each question is followed by a comment and a full solution. The comments direct the reader's attention to key points and put the question in its true mathematical context. The solutions point students to the methodology required to address advanced mathematical problems critically and independently. This book is a must read for any student wishing to apply to scientific subjects at university level and for anybody interested in advanced mathematics.

Introduction to the Theory of Computation Feb 09 2021 "Intended as an upper-level undergraduate or introductory graduate text in computer science theory," this book lucidly covers the key concepts and theorems of the theory of computation. The presentation is remarkably clear; for example, the "proof idea," which offers the reader an intuitive feel for how the proof was constructed, accompanies many of the theorems and a proof. *Introduction to the Theory of Computation* covers the usual topics for this type of text plus it features a solid section on complexity theory--including an entire chapter on space complexity. The final chapter introduces more advanced topics, such as the discussion of complexity classes associated with probabilistic algorithms.

Cambridge International A and AS Level Mathematics Jan 23 2022 This brand new series has been written for the University of Cambridge International Examinations course for AS and A Level Mathematics (9709). This title covers the requirements of P1. The authors are experienced examiners and teachers who have written extensively at this level, so have ensured all mathematical concepts are explained using language and terminology that is appropriate for students across the world. Students are provided with clear and detailed worked examples and questions from Cambridge International past papers, so they have the opportunity for plenty of essential exam practice. Each book contains a free CD-ROM which features the unique 'Personal Tutor' and 'Test Yourself' digital resources that will help students revise and reinforce concepts away from the classroom: - With Personal Tutor each student has access to audio-visual, step-by-step support through exam-style questions - The Test Yourself interactive multiple choice questions identify weaknesses and point students in the right direction

AS-Level Maths Edexcel Complete Revision & Practice Sep 30 2022 AS-Level Maths Edexcel Complete Revision and Practice

Principles of Foundation Engineering Jun 15 2021 Master the core concepts and applications of foundation analysis and design with Das/Sivakugan's best-selling PRINCIPLES OF FOUNDATION ENGINEERING, 9th Edition. Written specifically for those studying undergraduate civil engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Blue Pelican Java Sep 06 2020 "Blue Pelican Java" is a somewhat unusual high school computer science textbook. Most computer science texts will begin with a section on the history of computers followed with a flurry of definitions that are just "so many words" to the average student. The approach here is to first give the student some experience upon which to hang the definitions that come later. The usual practice of introducing classes and objects is deferred until the student has a firm grasp of the fundamentals (loops, decision structures, etc). Thus, the beginning student is not overwhelmed by the simultaneous introduction of OOPs and the fundamentals. The book includes plenty of exercises (many in "contest" form), programming projects, and a huge appendix.