Statistics Ocr June 2013 Mark Scheme

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Frontiers in Massive Data Analysis - National Research Council 2013-09-03
Data mining of massive data sets is transforming the way we think about crisis response, marketing, entertainment, cybersecurity and national intelligence. Collections of documents, images, videos, and networks are being thought of not merely as bit strings to be stored, indexed, and retrieved, but as potential sources of discovery and knowledge, requiring sophisticated analysis techniques that go far beyond classical indexing and keyword counting, aiming to find relational and semantic interpretations of the phenomena underlying the data. Frontiers in Massive Data Analysis examines the frontier of analyzing massive amounts of data, whether in a static database or streaming through a system. Data at that scale--terabytes and petabytes--is increasingly common in science (e.g., particle physics, remote sensing, genomics), Internet commerce, business analytics, national security, communications, and elsewhere. The tools that work to infer knowledge from data at smaller scales do not necessarily work, or work well, at such massive scale. New tools, skills, and approaches are necessary, and this report identifies many of them, plus promising research directions to explore. Frontiers in Massive Data Analysis discusses pitfalls in trying to infer knowledge from massive data, and it characterizes seven major classes of computation that are common in the analysis of massive data.

Overall, this report illustrates the cross-disciplinary knowledge--from computer science, statistics, machine learning, and application disciplines--that must be brought to bear to make useful inferences from massive data.

A Concise Course in A-level Statistics - J. Crawshaw 1994
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.

Nondiscrimination on the Basis of Sex in Education Programs Or Activities Receiving Federal Financial Assistance (Us Department of Education Regulation) (Ed) (2018 Edition) - The Law The Law Library 2018-07-22
Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance (US Department of Education Regulation) (ED) (2018 Edition) The Law Library presents the complete text of the Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance (US Department of Education Regulation) (ED) (2018 Edition). Updated as of May 29, 2018 The Secretary amends the regulations implementing Title IX of the Education Amendments of 1972 (Title IX), which prohibits sex

discrimination in federally assisted education programs and activities. These amendments clarify and modify Title IX regulatory requirements pertaining to the provision of single-sex schools, classes, 1 and extracurricular activities in elementary and secondary schools. The amendments expand flexibility for recipients to provide single-sex education, and they explain how single-sex education may be provided consistent with the requirements of Title IX. This book contains: - The complete text of the Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance (US Department of Education Regulation) (ED) (2018 Edition) - A table of contents with the page number of each section

Virgil, Aeneid X - Virgil 1918

Independent Schools Yearbook 2012-2013 - none 2013-06-20
The highly-respected book of reference of sought-after Independent Schools in membership of the Independent Schools Council's Associations: HMC, GSA, The Society of Heads, IAPS, ISA and COBIS.
New York Magazine - 1987-11-09
New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country. With award-winning writing and photography covering everything from politics and food to theater and fashion, the magazine's consistent mission has been to reflect back to its audience the energy and excitement of the city itself, while celebrating New York as both a place and an idea.
Reason in Context - American Catholic Philosophical Association. Meeting 2010-01-01

Fundamentals of Computer Programming with C# - Svetlin Nakov 2013-09-01
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 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 lead 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 books 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

Suetonius: Domitian - Suetonius 1996
An analysis of Suetonius' account of the emperor Domitian. The book provides a detailed commentary on matters of historical importance in the text, together with a discussion of Suetonius' life. A comparison is offered between Suetonius' account and Dio's version. Latin sources are utilized.

The Structure and Practices of the Debt Buying Industry - Federal Trade Commission 2015-01-13
In a 2009 study of the debt collection industry, the Commission concluded that the "most significant change in the debt collection business in recent years has been the advent and growth of debt buying." "Debt buying" refers to the sale of debt by creditors or other debt owners to buyers that then attempt to collect the debt or sell it to other buyers. Debt buying can reduce the losses that creditors incur in providing credit, thereby allowing creditors to provide more credit at lower prices.

Debt buying, however, also may raise significant consumer protection concerns.The FTC receives more consumer complaints about debt collectors, including debt buyers, than about any other single industry. Many of these complaints appear to have their origins in the quantity and quality of information that collectors have about debts. In its 2009 study, the Commission expressed concern that debt collectors, including debt buyers, may have insufficient or inaccurate information when they collect on debts, which may result in collectors seeking to recover from the wrong consumer or recover the wrong amount.The FTC initiated this debt buyer study in late 2009 for two main purposes. First, the FTC sought to obtain a better understanding of the debt buying market and the process of buying and selling debt. Second, the Commission wanted to explore the nature and extent of the relationship, if any, between the practice of debt buying and the types of information problems that the FTC has found can occur when debt collectors seek to recover and verify debts.Many stakeholders recognize the concerns that have been raised about debt buying, including consumer groups, members of Congress, federal and state regulatory and enforcement agencies, and the debt buyer industry itself. Indeed, the debt buyer industry has launched a self-regulatory effort to address some of these concerns, and the FTC is encouraged by that effort. This study of debt buyers is the first large-scale empirical assessment of the debt buying sector of the collection industry. The FTC hopes that its findings contribute to a greater understanding of debt buying, enhance ongoing reform efforts, and prompt further study of the industry. To conduct its study, the Commission obtained information about debts and debt buying practices from nine of the largest debt buyers that collectively bought 76.1% of the debt sold in 2008, with six of these debt buyers providing the information the Commission used in most of its analysis. The FTC also considered its prior enforcement and policy work related to debt collection, as well as available research concerning debt buying. The study focused on large debt buyers because they account for most of the debt purchased; it did not address the practices of smaller debt buyers that are a frequent source of consumer protection concerns, a limitation that must be

considered in evaluating the study's findings. The Commission acquired and analyzed an unprecedented amount of data from the studied debt buyers, which submitted data on more than 5,000 portfolios, containing nearly 90 million consumer accounts, purchased during the three-year study period. These accounts had a face value of $143 billion, and the debt buyers spent nearly $6.5 billion to acquire them. Most portfolios for which debt buyers submitted data were credit card debt, with such debt accounting for 62% of all portfolios and 71% of the total amount that the buyers spent to acquire debts. In addition to these data, the debt buyers provided copies of many purchase and sale agreements between themselves and sellers of debts. The debt buyers also submitted narrative responses to questions concerning their companies and their practices, as well as the debt buying industry. The key findings of the study are as follows:

Thinking Skills - John Butterworth 2013-04-18
Thinking Skills, second edition, is the only endorsed book offering complete coverage of the Cambridge International AS and A Level syllabus.

WIPO Standards - World Intellectual Property Organization 2017-05-30
The common framework for industrial property information and documentation.

Public Affairs - William M. Hammond 1988
United States Army in Vietnam. CMH Pub. 91-13. Draws upon previously unavailable Army and Defense Department records to interpret the part the press played during the Vietnam War. Discusses the roles of the following in the creation of information policy: Military Assistance Command's Office of Information in Saigon; White House; State Department; Defense Department; and the United States Embassy in Saigon.

The Age of Em - Robin Hanson 2016-05-13
Robots may one day rule the world, but what is a robot-ruled Earth like? Many think the first truly smart robots will be brain emulations or ems. Scan a human brain, then run a model with the same connections on a fast computer, and you have a robot brain, but recognizably human.

Train an em to do some job and copy it a million times: an army of workers is at your disposal. When they can be made cheaply, within perhaps a century, ems will displace humans in most jobs. In this new economic era, the world economy may double in size every few weeks. Some say we can't know the future, especially following such a disruptive new technology, but Professor Robin Hanson sets out to prove them wrong. Applying decades of expertise in physics, computer science, and economics, he uses standard theories to paint a detailed picture of a world dominated by ems. While human lives don't change greatly in the em era, em lives are as different from ours as our lives are from those of our farmer and forager ancestors. Ems make us question common assumptions of moral progress, because they reject many of the values we hold dear. Read about em mind speeds, body sizes, job training and career paths, energy use and cooling infrastructure, virtual reality, aging and retirement, death and immortality, security, wealth inequality, religion, teleportation, identity, cities, politics, law, war, status, friendship and love. This book shows you just how strange your descendants may be, though ems are no stranger than we would appear to our ancestors. To most ems, it seems good to be an em.

The Precipice - Toby Ord 2020-03-24
This urgent and eye-opening book makes the case that protecting humanity's future is the central challenge of our time. If all goes well, human history is just beginning. Our species could survive for billions of years - enough time to end disease, poverty, and injustice, and to flourish in ways unimaginable today. But this vast future is at risk. With the advent of nuclear weapons, humanity entered a new age, where we face existential catastrophes - those from which we could never come back. Since then, these dangers have only multiplied, from climate change to engineered pathogens and artificial intelligence. If we do not act fast to reach a place of safety, it will soon be too late. Drawing on over a decade of research, The Precipice explores the cutting-edge science behind the risks we face. It puts them in the context of the greater story of humanity: showing how ending these risks is among the most pressing moral issues of our time. And it points the way forward, to the actions

and strategies that can safeguard humanity. An Oxford philosopher committed to putting ideas into action, Toby Ord has advised the US National Intelligence Council, the UK Prime Minister's Office, and the World Bank on the biggest questions facing humanity. In The Precipice, he offers a startling reassessment of human history, the future we are failing to protect, and the steps we must take to ensure that our generation is not the last. "A book that seems made for the present moment." —New Yorker

The Expanding News Desert - Penelope Muse Abernathy 2018-11-15
This report delves into the implications for communities at risk of losing their primary source of credible news. By documenting the shifting news landscape and evaluating the threat of media deserts, this report seeks to raise awareness of the role interested parties can play in addressing the challenges confronting local news and democracy. The Expanding News Desert documents the continuing loss of papers and readers, the consolidation in the industry, and the social, political and economic consequences for thousands of communities throughout the country. It also provides an update on the strategies of the seven large investment firms--hedge and pension funds, as well as private and publicly traded equity groups--that swooped in to purchase hundreds of newspapers in recent years and explores the indelible mark they have left on the newspaper industry during a time of immense disruption.

Essentials of Nursing Research - Denise F. Polit 2013-01-28
This eighth edition of Essentials of Nursing Research, written by AJN awardwinning authors, along with its accompanying Study Guide for Essentials of Nursing Research, student learning ancillaries, and instructor teaching materials present a unique learningteaching package that is designed to teach students how to read and critique research reports, and to appreciate the application of research findings to nursing practice.New to this edition: New text organization with separate sections on quantitative and qualitative research offer greater continuity of ideas to better meet the needs of students and faculty. New online chapter supplements for every chapter expand student's knowledge of research topics New chapter on mixed methods research, which involves the blending of qualitative and quantitative data in a single inquiry, responds to the surge of interest in this type of research Increased emphasis on evidencebased practice (EBP) especially in the areas of asking wellworded questions for EBP and searching for such evidence guides the reader from theory to application. Enhanced assistance for instructors with numerous suggestions on how to make learning aboutand teachingresearch methods more rewarding.

Once in a House on Fire - Andrea Ashworth 2007
'One of the most extraordinary stories you will ever read of the triumph of the human spirit' Daily MailSet in 1970s Manchester, Once in a House on Fire tells the true story of three sisters and their mother, a close-knit and loving family forced to battle with poverty, abuse and the effects of depression. Beautifully written and deeply inspiring, with a new afterword by Andrea Ashworth, it is a book that will stay with its readers for ever.

The Times Index - 2007
Indexes the Times and its supplements.

New A-Level Maths for Edexcel: Statistics & Mechanics - Year 1/AS Student Book (with Online Edn) - CGP Books 2019-08

Predictability of Weather and Climate - Tim Palmer 2006-07-27
The topic of predictability in weather and climate has advanced significantly in recent years, both in understanding the phenomena that affect weather and climate and in techniques used to model and forecast them. This book, first published in 2006, brings together some of the world's leading experts on predicting weather and climate. It addresses predictability from the theoretical to the practical, on timescales from days to decades. Topics such as the predictability of weather phenomena, coupled ocean-atmosphere systems and anthropogenic climate change are among those included. Ensemble systems for forecasting predictability are discussed extensively. Ed Lorenz, father of chaos theory, makes a contribution to theoretical analysis with a previously unpublished paper. This well-balanced volume will be a valuable resource for many years. High-calibre chapter authors and extensive

subject coverage make it valuable to people with an interest in weather and climate forecasting and environmental science, from graduate students to researchers.

Social Choice and the Mathematics of Manipulation - Alan D. Taylor 2005-05-09
A mathematical look at why it is impossible to devise a completely unmanipulable voting system, first published in 2005.

Introduction to Information Retrieval - Christopher D. Manning 2008-07-07
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.

IBM FileNet Content Manager Implementation Best Practices and Recommendations - Fay Chuck 2013-06-07
IBM® FileNet® Content Manager Version 5.2 provides full content lifecycle and extensive document management capabilities for digital content. IBM FileNet Content Manager is tightly integrated with the family of IBM FileNet products based on the IBM FileNet P8 technical platform. IBM FileNet Content Manager serves as the core content management, security management, and storage management engine for the products. This IBM Redbooks® publication covers the implementation best practices and recommendations for solutions that use IBM FileNet Content Manager. It introduces the functions and features of IBM FileNet Content Manager, common use cases of the product, and a design methodology that provides implementation guidance from requirements analysis through production use of the solution. We address administrative topics of an IBM FileNet Content Manager solution, including deployment, system administration and maintenance, and troubleshooting. Implementation topics include system architecture design with various options for scaling an IBM FileNet Content Manager system, capacity planning, and design of repository design logical structure, security practices, and application design. An important implementation topic is business continuity. We define business continuity, high availability, and disaster recovery concepts and describe options for those when implementing IBM FileNet Content Manager solutions. Many solutions are essentially a combination of information input (ingestion), storage, information processing, and presentation and delivery. We discuss some solution building blocks that designers can combine to build an IBM FileNet Content Manager solution. This book is intended to be used in conjunction with product manuals and online help to provide guidance to architects and designers about implementing IBM FileNet Content Manager solutions. Many of the features and practices described in the book also apply to previous versions of IBM FileNet Content Manager.

Core Mathematics 2 - Greg Attwood 2004
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.

State of the World's Children 2013 - United Nations 2013-02
One in every seven children is disabled. Children with disabilities are among the most likely to be marginalized, poor and vulnerable. UNICEF is committed to improving the lives of children, particularly those who face the greatest disadvantages. The report will investigate the web of barriers disabled children face: discrimination, harmful norms and the lack of accurate information. The report will analyse and provide good-practice guidance on: inclusive health and education; prevention;

nutrition; protection from violence, exploitation and abuse; emergency response; institutionalization; and the role of appropriate technology and infrastructure

Edexcel Chemistry - Rob Ritchie 2010-10
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

The Easy Guide to Repertory Grids - Devi Jankowicz 2005-01-21
A user-friendly introduction to the powerful mental mapping tool of repertory grid technique. Repertory grid technique is a system for identifying, in detail, what you or anyone else really thinks about an issue. You can use it as a tool for personal discovery, as a device for team building activities, or as a problem-solving aid. Written as a DIY guide, with a friendly expert sitting beside you, this book will teach you the technique of repertory grids step by step. Here you'll find all the information you need, alongside lots of worked examples and helpful exercises that you can use to check your understanding. The answers are in the back! If you want additional practice and resources a website that supports this book can be found at www.wiley.co.uk/easyguide Professor

Devi Jankowicz is one of the leading authorities on occupational applications of personal construct theory and repertory grid technique. He has written this guide for psychology students and researchers; education students; personnel practitioners; as well as managers in the workplace. "This book's title may seem a contradiction in terms to readers who have seen the repertory grid as dauntingly complex. However, the book lives up to its title in being a very user-friendly introduction to the technique, written in a chatty style, and including numerous practical exercises, mostly not requiring use of computer software." - David Winter University of Hertfordshire and Barnet, Enfield and Haringey Mental Health NHS Trust

A Concise Course in Advanced Level Statistics - Janet Crawshaw 2001
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.

Evolution and Disease - James Thomas Charles Nash 1915

OCR Chemistry - Rob Ritchie 2010-10
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.

Speech & Language Processing - Dan Jurafsky 2000-09

The Tongue and Quill - Air Force 2019-10-11

The Tongue and Quill has been a valued Air Force resource for decades and many Airmen from our Total Force of uniformed and civilian members have contributed their talents to various editions over the years. This revision is built upon the foundation of governing directives and user's inputs from the unit level all the way up to Headquarters Air Force. A small team of Total Force Airmen from the Air University, the United States Air Force Academy, Headquarters Air Education and Training Command (AETC), the Air Force Reserve Command (AFRC), Air National Guard (ANG), and Headquarters Air Force compiled inputs from the field and rebuilt The Tongue and Quill to meet the needs of today's Airmen. The team put many hours into this effort over a span of almost two years to improve the content, relevance, and organization of material throughout this handbook. As the final files go to press it is the desire of The Tongue and Quill team to say thank you to every Airman who assisted in making this edition better; you have our sincere appreciation!

Make It Stick - Peter C. Brown 2014-04-14
Discusses the best methods of learning, describing how rereading and rote repetition are counterproductive and how such techniques as self-testing, spaced retrieval, and finding additional layers of information in new material can enhance learning.

Decision Mathematics - 1990

A Level Mathematics for OCR A Student Book 1 (AS/Year 1) - Ben Woolley 2017-07-06
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.

PGP: Pretty Good Privacy - Simson Garfinkel 1995
PGP is a freely available encryption program that protects the privacy of files and electronic mail. It uses powerful public key cryptography and works on virtually every platform. This book is both a readable technical user's guide and a fascinating behind-the-scenes look at cryptography and privacy. It describes how to use PGP and provides background on cryptography, PGP's history, battles over public key cryptography patents and U.S. government export restrictions, and public debates about privacy and free speech.

Cambridge International AS & A Level Mathematics Probability & Statistics 1 - Sophie Goldie 2018-05-14
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)

Digital Front-End in Wireless Communications and Broadcasting - Fa-Long Luo 2011-09-29
Covering everything from signal processing algorithms to integrated circuit design, this complete guide to digital front-end is invaluable for professional engineers and researchers in the fields of signal processing, wireless communication and circuit design. Showing how theory is translated into practical technology, it covers all the relevant standards and gives readers the ideal design methodology to manage a rapidly increasing range of applications. Step-by-step information for designing practical systems is provided, with a systematic presentation of theory,

principles, algorithms, standards and implementation. Design trade-offs are also included, as are practical implementation examples from real-world systems. A broad range of topics is covered, including digital pre-distortion (DPD), digital up-conversion (DUC), digital down-conversion (DDC) and DC-offset calibration. Other important areas discussed are peak-to-average power ratio (PAPR) reduction, crest factor reduction (CFR), pulse-shaping, image rejection, digital mixing, delay/gain/imbalance compensation, error correction, noise-shaping, numerical controlled oscillator (NCO) and various diversity methods.
Advanced Problems in Mathematics: Preparing for University - Stephen Siklos 2016-01-25
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.