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## KEY=3RD - LUIS MADDEN

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### STP MATHEMATICS 8

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*Oxford University Press, USA This new edition of the best-selling STP Mathematics series provides all the support you need to deliver the 2014 KS3 Programme of Study. These new student books retain the authoritative and rigorous approach of the previous editions, whilst developing students' problem-solving skills, helping to prepare them for the highest achievement at KS4. These student books are accompanied by online Kerboodle resources which include additional assessment activities, online digital versions of the student books and comprehensive teacher support.*

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### STP MATHEMATICS

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### ST(P) MATHEMATICS

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*Nelson Thornes ST(P) Mathematics offers very useful support to teachers and pupils through the PoS for Key Stages 3 and 4. Sufficient text is given for pupils to use as a reminder of the main results and methods. Each book offers an ample supply of excises to consolidate work covered by investigation, project, class discussion, class teaching etc.*

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**STP CARIBBEAN MATHS BOOK 1 THIRD EDITON**

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*Nelson Thornes STP Maths is one of the best selling maths courses across the Caribbean. The new edition has been revised in line with the new CXC syllabus, and now includes the use of investigations with opportunities for group work. It provides complete coverage of the CXC syllabus for the CSEC examination.*

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**STP MATHEMATICS 7**

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*Nelson Thornes This new edition of the best-selling STP Mathematics series provides all the support you need to deliver the 2014 KS3 Programme of Study. These new student books retain the authoritative and rigorous approach, whilst developing students' problem-solving skills, helping to prepare them for the highest achievement at KS4. These new editions are accompanied by online Kerboodle resources which include additional assessment activities, online digital versions of the student books and comprehensive teacher support.*

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**ST(P) CARIBBEAN MATHEMATICS**

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**REVIEW TEST BOOK**

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*Each review test book in this series is for use in conjunction with the corresponding ST(P) Caribbean maths book. The questions at the end of each chapter are designed to offer students the opportunity to check their mastery of the chapter. Each basic test consists of ten multiple-choice-type questions with four responses, and five questions for which reasoning needs to be shown. There are two tests on the content of some chapters for which extra testing seemed necessary. The majority of these basic tests should require 20-40 minutes, depending on the pupil's ability.*

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**MATHEMATICS**

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*Nelson Thornes A popular resource written by best-selling authors and completely in line with National Curriculum for 2001.*

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**STP NATIONAL CURRICULUM MATHEMATICS**

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*Nelson Thornes A popular resource written by best-selling authors.*

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**ST(P) MATHEMATICS**

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*Nelson Thornes Part of the ST(P) graded series in mathematics for Key Stages 3 and 4, leading to GCSE. Each book offers a supply or exercises to consolidate work covered by investigation, project, class discussion and class teaching. A corresponding book of teacher's notes is also available.*

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**INTRODUCTION TO PROBABILITY**

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*American Mathematical Soc. This text is designed for an introductory probability course at the university level for sophomores, juniors, and seniors in mathematics, physical and social sciences, engineering, and computer science. It presents a thorough treatment of ideas and techniques necessary for a firm understanding of*

the subject. The text is also recommended for use in discrete probability courses. The material is organized so that the discrete and continuous probability discussions are presented in a separate, but parallel, manner. This organization does not emphasize an overly rigorous or formal view of probability and therefore offers some strong pedagogical value. Hence, the discrete discussions can sometimes serve to motivate the more abstract continuous probability discussions. Features: Key ideas are developed in a somewhat leisurely style, providing a variety of interesting applications to probability and showing some nonintuitive ideas. Over 600 exercises provide the opportunity for practicing skills and developing a sound understanding of ideas. Numerous historical comments deal with the development of discrete probability. The text includes many computer programs that illustrate the algorithms or the methods of computation for important problems. The book is a beautiful introduction to probability theory at the beginning level. The book contains a lot of examples and an easy development of theory without any sacrifice of rigor, keeping the abstraction to a minimal level. It is indeed a valuable addition to the study of probability theory. --Zentralblatt MATH

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### **ST(P) MATHEMATICS 3A SECOND EDITION**

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Nelson Thornes A GRADED COURSE FOR KS 3 & 4 LEADING TO GCSE - KS 4 A BOOKS - designed for pupils working towards Level 7 - 8 at KS3, and higher tiers at GCSE. ST(P) Mathematics offers very useful support to teachers and pupils through the PoS for Key Stages 3 and 4.

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### **SPACETIME PHYSICS**

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Macmillan Collaboration on the First Edition of Spacetime Physics began in the mid-1960s when Edwin Taylor took a junior faculty sabbatical at Princeton University where John Wheeler was a professor. The resulting text emphasized the unity of spacetime and those quantities (such as proper time, proper distance, mass) that are invariant, the same for all observers, rather than those quantities (such as space and time separations) that are relative, different for different observers. The book has become a standard introduction to relativity. The Second Edition of Spacetime Physics embodies what the authors have learned during an additional quarter century of teaching and research. They have updated the text to reflect the immense strides in physics during the same period and modernized and increased the number of exercises, for which the First Edition was famous. Enrichment boxes provide expanded coverage of intriguing topics. An enlarged final chapter on general relativity includes new material on gravity waves, black holes, and cosmology. The Second Edition of Spacetime Physics provides a new generation of readers with a deep and simple overview of the principles of relativity.

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### **HOW TO SOLVE IT**

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### **A NEW ASPECT OF MATHEMATICAL METHOD**

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Princeton University Press A perennial bestseller by eminent mathematician G. Polya, *How to Solve It* will show anyone in any field how to think straight. In lucid and

appealing prose, Polya reveals how the mathematical method of demonstrating a proof or finding an unknown can be of help in attacking any problem that can be "reasoned" out—from building a bridge to winning a game of anagrams. Generations of readers have relished Polya's deft—indeed, brilliant—instructions on stripping away irrelevancies and going straight to the heart of the problem.

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## **BIM HANDBOOK**

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### **A GUIDE TO BUILDING INFORMATION MODELING FOR OWNERS, DESIGNERS, ENGINEERS, CONTRACTORS, AND FACILITY MANAGERS**

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*John Wiley & Sons Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.*

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## **TOP-DOWN NETWORK DESIGN**

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### **TOP-DOWN NET DES \_C3**

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*Pearson Education Objectives The purpose of Top-Down Network Design, Third Edition, is to help you design networks that meet a customer's business and technical goals. Whether your customer is another department within your own company or an external client, this book provides you with tested processes and tools to help you understand traffic flow, protocol behavior, and internetworking technologies. After completing this book, you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance, availability, scalability, affordability, security, and manageability. Audience This book is for you if you are an internetworking professional responsible for designing and maintaining medium- to large-sized enterprise networks. If you are a network engineer, architect, or technician who has a working knowledge of network protocols and technologies, this book will provide you with practical advice*

on applying your knowledge to internetwork design. This book also includes useful information for consultants, systems engineers, and sales engineers who design corporate networks for clients. In the fast-paced presales environment of many systems engineers, it often is difficult to slow down and insist on a top-down, structured systems analysis approach. Wherever possible, this book includes shortcuts and assumptions that can be made to speed up the network design process. Finally, this book is useful for undergraduate and graduate students in computer science and information technology disciplines. Students who have taken one or two courses in networking theory will find *Top-Down Network Design, Third Edition*, an approachable introduction to the engineering and business issues related to developing real-world networks that solve typical business problems. Changes for the Third Edition Networks have changed in many ways since the second edition was published. Many legacy technologies have disappeared and are no longer covered in the book. In addition, modern networks have become multifaceted, providing support for numerous bandwidth-hungry applications and a variety of devices, ranging from smart phones to tablet PCs to high-end servers. Modern users expect the network to be available all the time, from any device, and to let them securely collaborate with coworkers, friends, and family. Networks today support voice, video, high-definition TV, desktop sharing, virtual meetings, online training, virtual reality, and applications that we can't even imagine that brilliant college students are busily creating in their dorm rooms. As applications rapidly change and put more demand on networks, the need to teach a systematic approach to network design is even more important than ever. With that need in mind, the third edition has been retooled to make it an ideal textbook for college students. The third edition features review questions and design scenarios at the end of each chapter to help students learn top-down network design. To address new demands on modern networks, the third edition of *Top-Down Network Design* also has updated material on the following topics:  $\zeta$  Network redundancy  $\zeta$  Modularity in network designs  $\zeta$  The Cisco SAFE security reference architecture  $\zeta$  The Rapid Spanning Tree Protocol (RSTP)  $\zeta$  Internet Protocol version 6 (IPv6)  $\zeta$  Ethernet scalability options, including 10-Gbps Ethernet and Metro Ethernet  $\zeta$  Network design and management tools

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## **OXFORD MATHEMATICS FOR THE CARIBBEAN BOOK 2**

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Oxford University Press - Children This best-selling series is now in its sixth edition. Written by Maths expert, Nicholas Goldberg, this book has been updated to cover the latest syllabuses and provides extensive worked examples and practice. With a clear discovery-oriented approach that brings mathematics to life, this series can be relied upon to develop mathematical skills and build confidence in your students.

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## **QUANTITIES, UNITS AND SYMBOLS IN PHYSICAL CHEMISTRY**

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Royal Society of Chemistry The first IUPAC Manual of Symbols and Terminology for Physicochemical Quantities and Units (the Green Book) of which this is the direct successor, was published in 1969, with the object of 'securing clarity and precision, and wider agreement in the use of symbols, by chemists in different countries, among physicists, chemists and engineers, and by editors of scientific journals'.

Subsequent revisions have taken account of many developments in the field, culminating in the major extension and revision represented by the 1988 edition under the simplified title *Quantities, Units and Symbols in Physical Chemistry*. This 2007, Third Edition, is a further revision of the material which reflects the experience of the contributors with the previous editions. The book has been systematically brought up to date and new sections have been added. It strives to improve the exchange of scientific information among the readers in different disciplines and across different nations. In a rapidly expanding volume of scientific literature where each discipline has a tendency to retreat into its own jargon this book attempts to provide a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions. This is the definitive guide for scientists and organizations working across a multitude of disciplines requiring internationally approved nomenclature.

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## **AN INTRODUCTION TO SEMI-TENSOR PRODUCT OF MATRICES AND ITS APPLICATIONS**

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World Scientific Proposes a generalization of Conventional Matrix Product (CMP), called the Semi-Tensor Product (STP). This book offers a comprehensive introduction to the theory of STP and its various applications, including logical function, fuzzy control, Boolean networks, analysis and control of nonlinear systems, amongst others.

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## **STP CARIBBEAN MATHEMATICS**

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Oxford University Press - Children STP Caribbean Mathematics Book 1 has been revised and updated to address the demands of mathematics syllabuses in the region and provide students with a firm foundation for success at CSEC®. STP Caribbean Mathematics makes mathematics relevant for students by providing real-life context and plenty of opportunity to practise key mathematical skills and concepts. It introduces topics in a clear, accessible and thorough manner - and its focus on the core aspects of mathematics help to reinforce the textbook's accuracy and rigour. This title also includes answers to all the activities.

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## **EDEXCEL AS AND A LEVEL MODULAR MATHEMATICS STATISTICS 1 S1**

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Pearson Education Ltd Includes student-friendly worked examples and solutions that lead up to practice questions, this title gives students revision advice, ideas, summaries and exam practice, with hints and tips.

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## **DISCRETE MATHEMATICS**

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### **AN OPEN INTRODUCTION**

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Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado.

*This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at [discrete.openmathbooks.org](http://discrete.openmathbooks.org)*

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## **PHYSICS OF LIGHT AND OPTICS (BLACK & WHITE)**

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*Lulu.com*

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## **THE PROCESS OF LEARNING MATHEMATICS**

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## **THE COMMONWEALTH AND INTERNATIONAL LIBRARY: MATHEMATICAL TOPICS**

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*Elsevier The Process of Learning Mathematics is a collection of essays from a two-term course of intercollegiate lectures for students of B.Ed. degree. This collection starts with two different views on the nature of mathematics. One essay discusses the role of intuition in understanding mathematics, while another paper expounds on the role of logic. This book then discusses the generalization, structure, and approximations used in teaching mathematics, and emphasizes the problems of applied mathematics and technology pertaining to equations of motion, mathematical representation of physical phenomena, or in relations such as conservation of matter. One paper reviews Piaget's studies on the development of children's thinking process, noting that teachers should consider the level of thinking the pupil uses when designing his teaching material. Another essay deals with how the existing knowledge in a student can affect new kinds of learning through assimilation and accommodation. This book then describes the use of symbols and "reflective intelligence," addressing reflective activities, communication, and the contribution of symbols. This text then discusses computer-assisted education and several mathematical teaching or learning experiments. This compendium can prove useful for mathematics majors, educators, school administrators, and math teachers.*

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## **THE PHYSICS OF RADIATION THERAPY**

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*Lippincott Williams & Wilkins Dr. Khan's classic textbook on radiation oncology physics is now in its thoroughly revised and updated Fourth Edition. It provides the entire radiation therapy team—radiation oncologists, medical physicists, dosimetrists, and radiation therapists—with a thorough understanding of the physics*

and practical clinical applications of advanced radiation therapy technologies, including 3D-CRT, stereotactic radiotherapy, HDR, IMRT, IGRT, and proton beam therapy. These technologies are discussed along with the physical concepts underlying treatment planning, treatment delivery, and dosimetry. This Fourth Edition includes brand-new chapters on image-guided radiation therapy (IGRT) and proton beam therapy. Other chapters have been revised to incorporate the most recent developments in the field. This edition also features more than 100 full-color illustrations throughout. A companion Website will offer the fully searchable text and an image bank.

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## **STP CARIBBEAN MATHEMATICS**

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Oxford University Press - Children STP Caribbean Mathematics Book 1 has been revised and updated to address the demands of mathematics syllabuses in the region and provide students with a firm foundation for success at CSEC®. STP Caribbean Mathematics makes mathematics relevant for students by providing real-life context and plenty of opportunity to practise key mathematical skills and concepts. It introduces topics in a clear, accessible and thorough manner - and its focus on the core aspects of mathematics help to reinforce the textbook's accuracy and rigour. This title also includes answers to all the activities.

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## **STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER**

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"The signature undertaking of the Twenty-Second Edition was clarifying the QC practices necessary to perform the methods in this manual. Section in Part 1000 were rewritten, and detailed QC sections were added in Parts 2000 through 7000. These changes are a direct and necessary result of the mandate to stay abreast of regulatory requirements and a policy intended to clarify the QC steps considered to be an integral part of each test method. Additional QC steps were added to almost half of the sections."--Pref. p. iv.

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## **FUNDAMENTALS OF NUCLEAR SCIENCE AND ENGINEERING SECOND EDITION**

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CRC Press Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is

unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of *Fundamentals of Nuclear Science and Engineering* is a key reference for any physicists or engineer.

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### **APPLIED CORPORATE FINANCE, 4TH EDITION**

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Wiley Global Education Aswath Damodaran, distinguished author, Professor of Finance, and David Margolis, Teaching Fellow at the NYU Stern School of Business, have delivered the newest edition of *Applied Corporate Finance*. This readable text provides the practical advice students and practitioners need rather than a sole concentration on debate theory, assumptions, or models. Like no other text of its kind, *Applied Corporate Finance, 4th Edition* applies corporate finance to real companies. It now contains six real-world core companies to study and follow. Business decisions are classified for students into three groups: investment, financing, and dividend decisions.

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### **LEARNING SQL**

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### **MASTER SQL FUNDAMENTALS**

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O'Reilly Media Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, *Learning SQL, Second Edition*, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With *Learning SQL*, you'll quickly learn how to put the power and flexibility of this language to work.

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### **NELSON KEY GEOGRAPHY CONNECTIONS**

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Oxford University Press - Children This newest edition of David Waugh and Tony Bushell's *Key Geography* provides the support you need to deliver the 2014 KS3 Programme of Study, with a focus on developing key geographical skills and techniques to prepare students for Key Stage 4. The *Connections* student book includes chapters on Rivers, coasts and glaciation and India. Answers to activities can be found in the *Connections Teacher's Handbook*.

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## **ELECTROCHEMICAL METHODS: FUNDAMENTALS AND APPLICATIONS, 2ND EDITION**

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*Wiley Global Education* A broad and comprehensive survey of the fundamentals for electrochemical methods now in widespread use. This book is meant as a textbook, and can also be used for self-study as well as for courses at the senior undergraduate and beginning graduate levels. Knowledge of physical chemistry is assumed, but the discussions start at an elementary level and develop upward. This revision comes twenty years after publication of the first edition, and provides valuable new and updated coverage.

## **SHAPING MATHS**

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### **COURSEBOOK**

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### **TEACHING READING SOURCEBOOK**

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*Arena Press* "Prepare students for future success by using effective reading instruction that's proven to work. The Teaching Reading Sourcebook, updated second edition is an indispensable resource that combines evidence-based research with actionable instructional strategies. It is an essential addition to any educator's professional literacy library--elementary, secondary, university." -- back cover.

## **OXFORD MATHEMATICS FOR THE CARIBBEAN BOOK 3**

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*Oxford University Press - Children* This best-selling series is now in its sixth edition. Written by Maths expert, Nicholas Goldberg, this book has been updated to cover the latest syllabuses and provides extensive worked examples and practice. With a clear discovery-oriented approach that brings mathematics to life, this series can be relied upon to develop mathematical skills and build confidence in your students.

## **SEPARATION PROCESS PRINCIPLES WITH APPLICATIONS USING PROCESS SIMULATORS, 4TH EDITION**

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*Wiley Global Education* Separation Process Principles with Applications Using Process Simulator, 4th Edition is the most comprehensive and up-to-date treatment of the major separation operations in the chemical industry. The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice. Completely rewritten to enhance clarity, this fourth edition provides engineers with a strong understanding of the field. With the help of an additional co-author, the text presents new information on bioseparations throughout the chapters. A new chapter on mechanical separations covers settling, filtration and centrifugation including mechanical separations in biotechnology and cell lysis. Boxes help highlight fundamental equations. Numerous new examples and exercises are integrated throughout as well.

## **FUNDAMENTALS OF MATHEMATICS**

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**TRICOLORE TOTAL 1**

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*Oxford University Press The new edition of this tried and trusted course has been updated to meet the requirements of the new Key Stage 3 curriculum, providing a range of blended resources to help support and develop independent learning and creativity.*

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**SOCIOPHONETICS**

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**A STUDENT'S GUIDE**

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*-incorporates exercises and projects in each chapter --*

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**OXFORD MATHEMATICS FOR THE CARIBBEAN BOOK 1**

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*Oxford University Press - Children The best-selling series is now in its sixth edition. Written by Maths expert, Nicholas Goldberg, this book has been updated to cover the latest syllabuses and provides extensive worked examples and practice. With a clear, discovery-oriented approach that brings mathematics to life, this series be relied on to develop mathematical skills and build confidence in your students.*

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**PURE MATHEMATICS**

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