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KEY=PAPERS - GEMMA JONAS

CALCULUS

Wellesley-Cambridge Press *Gilbert Strang's clear, direct style and detailed, intensive explanations make this textbook ideal as both a course companion and for self-study. Single variable and multivariable calculus are covered in depth. Key examples of the application of calculus to areas such as physics, engineering and economics are included in order to enhance students' understanding. New to the third edition is a chapter on the 'Highlights of calculus', which accompanies the popular video lectures by the author on MIT's OpenCourseWare. These can be accessed from math.mit.edu/~gs.*

CONCRETE MATHEMATICS: A FOUNDATION FOR COMPUTER SCIENCE

Pearson Education India

WJEC AND EDUQAS GCSE BUSINESS

Ensure that every student can fulfil their potential with this tailor-made Student Book for the 2017 specifications; our bestselling Business authors develop knowledge and skills through clear explanations, real-life examples and assessment practice questions. - Builds understanding of business concepts through accessible explanations, supported by definitions of key terms and tips that highlight important points and common misconceptions - Enables students to apply their knowledge to the real business examples, issues and contexts in the 'Business insight' feature - Develops investigative, analytical and evaluation skills through multiple choice, short answer and case study/data response questions, sample answers and commentary - Encourages students to track their progress using learning outcomes, end-of-chapter summaries and knowledge-check questions - Helps students practise and improve their quantitative skills via the 'Maths moment' feature - Stretches students with questions that test their ability to make an informed judgement

NEW A-LEVEL MATHS FOR EDEXCEL: STATISTICS & MECHANICS - YEAR 1/AS STUDENT BOOK (WITH ONLINE EDN)

CERTIFICATE CHEMISTRY

Certificate Chemistry is the tried and tested title that follows a traditional approach to teaching chemistry.

INSTRUMENTATION AND CONTROL SYSTEMS

Elsevier *In a clear and readable style, Bill Bolton addresses the basic principles of modern instrumentation and control systems, including examples of the latest devices, techniques and applications. Unlike the majority of books in this field, only a minimal prior knowledge of mathematical methods is assumed. The book focuses on providing a comprehensive introduction to the subject, with Laplace presented in a simple and easily accessible form, complimented by an outline of the mathematics that would be required to progress to more advanced levels of study. Taking a highly practical approach, Bill Bolton combines underpinning theory with numerous case studies and applications throughout, to enable the reader to apply the content directly to real-world engineering contexts. Coverage includes smart instrumentation, DAQ, crucial health and safety considerations, and practical issues such as noise reduction, maintenance and testing. An introduction to PLCs and ladder programming is incorporated in the text, as well as new information introducing the various software programmes used for simulation. Problems with a full answer section are also included, to aid the reader's self-assessment and learning, and a companion website (for lecturers only) at <http://textbooks.elsevier.com> features an Instructor's Manual including multiple choice questions, further assignments with detailed solutions, as well as additional teaching resources. The overall approach of this book makes it an ideal text for all introductory level undergraduate courses in control engineering and instrumentation. It is fully in line with latest syllabus requirements, and also covers, in full, the requirements of the Instrumentation & Control Principles and Control Systems & Automation units of the new Higher National Engineering syllabus from Edexcel. * Assumes minimal prior mathematical knowledge, creating a highly accessible student-centred text * Problems, case studies and applications included throughout, with a full set of answers at the back of the book, to aid student learning, and place theory in real-world engineering contexts * Free online lecturer resources featuring supporting notes, multiple-choice tests, lecturer handouts and further assignments and solutions*

RAMAN SPECTROSCOPY IN GRAPHENE RELATED SYSTEMS

John Wiley & Sons *Raman spectroscopy is the inelastic scattering of light by matter. Being highly sensitive to the physical and chemical properties of materials, as well as to environmental effects that change these properties, Raman spectroscopy is now evolving into one of the most important tools for nanoscience and nanotechnology. In contrast to usual microscopy-related techniques, the advantages of using light for nanoscience relate to both experimental and*

fundamental aspects.

XAFS FOR EVERYONE

CRC Press *XAFS for Everyone* provides a practical, thorough guide to x-ray absorption fine-structure (XAFS) spectroscopy for both novices and seasoned practitioners from a range of disciplines. The text is enhanced with more than 200 figures as well as cartoon characters who offer informative commentary on the different approaches used in XAFS spectroscopy. The book covers sample preparation, data reduction, tips and tricks for data collection, fingerprinting, linear combination analysis, principal component analysis, and modeling using theoretical standards. It describes both near-edge (XANES) and extended (EXAFS) applications in detail. Examples throughout the text are drawn from diverse areas, including materials science, environmental science, structural biology, catalysis, nanoscience, chemistry, art, and archaeology. In addition, five case studies from the literature demonstrate the use of XAFS principles and analysis in practice. The text includes derivations and sample calculations to foster a deeper comprehension of the results. Whether you are encountering this technique for the first time or looking to hone your craft, this innovative and engaging book gives you insight on implementing XAFS spectroscopy and interpreting XAFS experiments and results. It helps you understand real-world trade-offs and the reasons behind common rules of thumb.

CLEARREVISE OCR GCSE COMPUTER SCIENCE J277

Pg Online Limited *Absolute clarity is the aim with a new generation of revision guide for the 2020s. This guide has been expertly compiled and edited by successful former teachers of Computer Science, highly experienced examiners and a good dollop of scientific research into what makes revision most effective. Past examinations questions are essential to good preparation, improving understanding and confidence. This guide has combined revision with tips and more practice questions than you could shake a stick at. All the essential ingredients for getting a grade you can be really proud of. Each specification topic has been referenced and distilled into the key points to make in an examination for top marks. Questions on all topics assessing knowledge, application and analysis are all specifically and carefully devised throughout this book.*

ELECTRONICS

A FIRST COURSE

Routledge *This volume presents the basics of electricity and component types, and introduces students to practical work involving basic electronics. This text is intended for a wide range of introductory courses in electronics, technology, physics and engineering. The coverage includes GCSE Electronics, GCSE Design & Technology, Engineering GCSE and City & Guilds competence-based courses such as Level 2 NVQs. The author's approach is student-centred with self-test features to check understanding, including numerous activities suitable for practicals, homework and other assignments.*

NADA

A NOVEL

Modern Library *Renowned as Spain's The Catcher in the Rye, this passionate coming-of-age novel follows a rebellious college-age girl as she uncovers her family's secrets in chaotic, polarized, post-Civil War Barcelona. Andrea, an eighteen-year-old orphan, moves in with her volatile Barcelona relatives to attend the local University. Living in genteel squalor in a mysterious house on Calle de Aribau, Andrea relies on her wealthy, beautiful, bohemian friend Ena to prove that normal life exists beyond the gothic dwelling she calls home. In one year, as her innocence melts away, Andrea learns the truth about her overbearing and religious Aunt Angustias, her cruelly sensual, musically gifted uncle Román and his violent brother Juan, and her lovely Aunt Gloria, who provides the family's bread with furtive gambling expeditions. She also learns the truth about Ena—and why her friendship goes hand in hand with her interest in Andrea's family. Peppered with dark humor, energy, and hope, Carmen Laforet's stunning classic is the story of a young woman who endures the harsh realities of post-Civil War Barcelona, emerging wiser and stronger, and with a bright future ahead of her.*

BATTERIES FOR SUSTAINABILITY

SELECTED ENTRIES FROM THE ENCYCLOPEDIA OF SUSTAINABILITY SCIENCE AND TECHNOLOGY

Springer Science & Business Media *Batteries that can store electricity from solar and wind generation farms are a key component of a sustainable energy strategy. Featuring 15 peer-reviewed entries from the Encyclopedia of Sustainability Science and Technology, this book presents a wide range of battery types and components, from nanocarbons for supercapacitors to lead acid battery systems and technology. Worldwide experts provides a snapshot-in-time of the state-of-the art in battery-related R&D, with a particular focus on rechargeable batteries. Such batteries can store electrical energy generated by renewable energy sources such as solar, wind, and hydropower installations with high efficiency and release it on demand. They are efficient, non-polluting, self-contained devices, and their components can be recovered and used to recreate battery systems. Coverage also highlights the significant efforts currently underway to adapt battery technology to power cars, trucks and buses in order to eliminate pollution from petroleum combustion. Written for an audience of undergraduate and graduate students, researchers, and industry experts, Batteries for Sustainability is an invaluable one-stop reference to this essential area of energy technology.*

INTERNATIONAL AS AND A LEVEL PHYSICS REVISION GUIDE

Philip Allan *International A/AS-level Science Revision Guides provide exam-focused texts to guide students through the content and skills of the course to prepare them for their AS and A-level exams. - The Introduction provides an overview of the course and how it is assessed, advice on revision and taking the examination papers. - The*

Content Guidance sections provide a summary of the facts and concepts that you need to know for the examination. - The Experimental Skills & Investigations sections explain the data-handling skills you will need to answer some of the questions in the written papers. It also explains the practical skills that you will need in order to well in the practical examination. - The Questions and Answers sections contain a specimen examination paper for you to try, followed by a set of student's answers for each question

THE FROZEN HEART

A SWEEPING EPIC THAT WILL GRIP YOU FROM THE FIRST PAGE

Weidenfeld & Nicolson *From the Spanish Maggie O'Farrell, a sweeping epic about the Spanish Civil War. 'A classy blockbuster - a layered saga of family life, rivalry and redemption' GUARDIAN* In the small town of Torrelodones on the outskirts of Madrid, a funeral is taking place. Julio Carrión González, a man of tremendous wealth and influence in Madrid, has come home to be buried. But as the family stand by the graveside, his son Alvaro notices the arrival of a stranger -- a young and attractive woman. No one appears to know who she is, or why she is there. Alvaro's questions only deepen when the family inherits an enormous amount of money that is a surprise even to them. In his father's study Alvaro discovers an old folder with letters sent to his father in Russia between 1941 and 1943, faded photos of people he never met and a locked grey metal box. The woman is Raquel Fernández Perea, the daughter of Spaniards who fled during the Civil War. One episode in her past has marked her for ever -- the only time she saw her grandfather cry. Her fate, and that of the family, now hangs on the secrets of Julio's past. From the provincial heartlands of Spain to the battlefields of Russia, *THE FROZEN HEART* is a mesmerising journey through a war that tore families apart, pitted fathers against sons, brothers against brothers, wives against husbands. Against such a past, where do faith and loyalty lie?

SCHOOL OF THE SUN

Columbia University Press *A Spanish writer's approach by the intimist route to the still unassuaged griefs of the Civil War...What happens is that the protected bourgeois world in which it is possible to go on with the pretext of childishness at fourteen is split open by the realities of war, or, rather, the realities of which the war is the expression.*

ENGINEERING SCIENCE, 6TH ED

Routledge *Comprehensive engineering science coverage that is fully in line with the latest vocational course requirements New chapters on heat transfer and fluid mechanics Topic-based approach ensures that this text is suitable for all vocational engineering courses Coverage of all the mechanical, electrical and electronic principles within one volume provides a comprehensive exploration of scientific principles within engineering Engineering Science is a comprehensive textbook suitable for all vocational and pre-degree courses. Taking a subject-led approach, the*

essential scientific principles engineering students need for their studies are topic-by-topic based in presentation. Unlike most of the textbooks available for this subject, Bill Bolton goes beyond the core science to include the mechanical, electrical and electronic principles needed in the majority of courses. A concise and accessible text is supported by numerous worked examples and problems, with a complete answer section at the back of the book. Now in its sixth edition, the text has been fully updated in line with the current BTEC National syllabus and will also prove an essential reference for students embarking on Higher National engineering qualifications and Foundation Degrees.

CAMBRIDGE INTERNATIONAL AS AND A LEVEL CHEMISTRY COURSEBOOK WITH CD-ROM

Cambridge University Press Fully revised and updated content matching new Cambridge International Examinations 9701 syllabus for first examination in 2016. Endorsed by Cambridge International Examinations, this digital edition comprehensively covers all the knowledge and skills students need during the A Level Chemistry course (9701), for first examination in 2016, in a reflowable format, adapting to any screen size or device. Written by renowned experts in Chemistry teaching, the text is written in an accessible style with international learners in mind. Self-assessment questions allow learners to track their progress, and exam-style questions help learners to prepare thoroughly for their examinations. Answers to all the questions from within the Coursebook are provided.

PYTHON CHALLENGE!

Learn to program fast in 155 challenges, 54 examples and 85 pages This book is a 'gamified' approach to Python, aimed at supporting GCSE and KS3 students, with complete coverage of the GCSE programming requirements. There's no substitute for practice when it comes to learning a new skill! Python syntax is simple to learn, but becoming an expert in writing programs to solve different kinds of problems takes a bit longer. That's why this book has a short explanation of each new statement or technique, followed by one or more examples and then loads of practice challenges. Some of the challenges will take you only a minute or two, using the Python Interactive window to try out new statements and get immediate results. As you get further into the book, you will be challenged to write programs to perform different kinds of tasks - for example to find the results of a calculation, write a program for a simplified cash machine, sort a list of items into alphabetical order, or to record data in a text file to be read, formatted, and printed. The programming solutions to some challenges have been helpfully simplified for an inexperienced programmer to modify rather than to write from scratch. This builds your confidence in problem-solving. That's why 35 challenges consist of partially written programs for you to complete.

PHYSICS FOR THE IB DIPLOMA FULL COLOUR

Cambridge University Press A best-seller now available in full colour, covering the entire IB syllabus.

POLYMER CHEMISTRY

CRC Press *A well-rounded and articulate examination of polymer properties at the molecular level, Polymer Chemistry focuses on fundamental principles based on underlying chemical structures, polymer synthesis, characterization, and properties. It emphasizes the logical progression of concepts and provide mathematical tools as needed as well as fully derived problems for advanced calculations. The much-anticipated Third Edition expands and reorganizes material to better develop polymer chemistry concepts and update the remaining chapters. New examples and problems are also featured throughout. This revised edition: Integrates concepts from physics, biology, materials science, chemical engineering, and statistics as needed. Contains mathematical tools and step-by-step derivations for example problems. Incorporates new theories and experiments using the latest tools and instrumentation and topics that appear prominently in current polymer science journals. Polymer Chemistry, Third Edition offers a logical presentation of topics that can be scaled to meet the needs of introductory as well as more advanced courses in chemistry, materials science, polymer science, and chemical engineering.*

A PURRFECT MATCH

Dreamspinner Press *When a bad day at work culminates in losing out on a promotion, Jim Sanders shifts into his animal form to let off steam. Then his bad day turns into a bad night-while prowling his Atlantic City neighborhood as a large gray house cat, he's caught in a torrential downpour. What little luck he has washes down the gutter when his new boss, Andrew Wright, catches him taking shelter on his porch, brings him inside, and starts calling him Mr. Frosty. As a feline, Jim becomes the inadvertent confessor for his boss's lonely son, Tony, a victim of schoolyard bullying. As a human, he feels drawn to Andrew, a man he wanted to resent. Finding love was never part of Jim's plan for the future-not with his bizarre secret-yet suddenly he finds himself navigating that minefield anyway. But not everything is easy, especially for an interracial gay couple dealing with prejudice in the workplace, at Tony's school, and even within their own families.*

PROCESS SAFETY CALCULATIONS

Elsevier *Process Safety Calculations, Second Edition remains to be an essential guide for students and practitioners in process safety engineering who are working on calculating and predicting risks and consequences. The book focuses on calculation procedures based on basic chemistry, thermodynamics, fluid dynamics, conservation equations, kinetics and practical models. It provides helpful calculations to demonstrate compliance with regulations and standards, such as Seveso directive(s)/COMAH, CLP regulation, ATEX directives, PED directives, REACH regulation, OSHA/NIOSH and UK ALARP, along with risk and consequence assessment, stoichiometry, thermodynamics, stress analysis and fluid-dynamics. This fully revised, updated and expanded second edition follows the same organization as the first, including the original three main parts, Fundamentals, Consequence Assessment and Quantitative Risk Assessment. However, the latter*

part is significantly expanded, including an appendix consisting of five fundamental thematic areas belonging to the risk assessment framework, including in-depth calculations methodologies for some fundamental monothematic macro-areas of process safety. Revised, updated and expanded new edition that includes newly developing areas of process safety that are relevant to QRA Provides engineering fundamentals to enable readers to properly approach the subject of process safety Includes a remarkable and broad numbers of calculation examples, which are completely resolved and fully explained Develops the QRA subject, consistently with the methodology applied in the big projects

CRC HANDBOOK OF METAL ETCHANTS

CRC Press This publication presents cleaning and etching solutions, their applications, and results on inorganic materials. It is a comprehensive collection of etching and cleaning solutions in a single source. Chemical formulas are presented in one of three standard formats - general, electrolytic or ionized gas formats - to insure inclusion of all necessary operational data as shown in references that accompany each numbered formula. The book describes other applications of specific solutions, including their use on other metals or metallic compounds. Physical properties, association of natural and man-made minerals, and materials are shown in relationship to crystal structure, special processing techniques and solid state devices and assemblies fabricated. This publication also presents a number of organic materials which are widely used in handling and general processing...waxes, plastics, and lacquers for example. It is useful to individuals involved in study, development, and processing of metals and metallic compounds. It is invaluable for readers from the college level to industrial R & D and full-scale device fabrication, testing and sales. Scientific disciplines, work areas and individuals with great interest include: chemistry, physics, metallurgy, geology, solid state, ceramic and glass, research libraries, individuals dealing with chemical processing of inorganic materials, societies and schools.

EVA LUNA

Simon and Schuster ***The remarkable novel from the multi-million bestselling author of The House of the Spirits and The Japanese Lover*** Meet the unforgettable Eva Luna: a lover, a writer, a revolutionary and above all, a storyteller. Eva Luna is the daughter of a professor's assistant and a snake-bitten gardener - born poor, orphaned at an early age and working as a servant. Eva is a naturally gifted and imaginative storyteller who meets people from all walks of life. Though she has no wealth, she trades her stories like currency with people who are kind to her. As she shares her stories, she introduces an eccentric cast of characters: the Lebanese émigré who takes her in, her Catholic godmother who believes in saints, a street urchin who grows up to be the leader of the guerrilla struggle, a celebrated trans cabaret star and a young refugee whose flight from postwar Europe will change Eva's life forever. As Eva tells her story, Isabel Allende brings to life a complex South American country - the rich, the poor, the sophisticated - in a novel that celebrates the power of imagination and storytelling. Praise for Isabel Allende's Eva Luna:

'Vibrant, colourful characters; the ordinary fused with the grotesque; a Latin American setting, tropical this time; vivid, elegant narrative. The narrator, Eva Luna, is herself a story-teller in the Allende tradition' Guardian 'An evident affection for words, compassion for the oppressed and the inarticulate, the daring ambition to draw cross-sections of whole societies . . . Allende's work glows' New York Times 'Sumptuous . . . a tale that spans forty years and moves from a surreal jungle to a modern-day urban capital where even the most apolitical are driven to risky anti-government activities' Chicago Tribune 'Allende rearranges reality with a blend of memories, mysticism and imagination' The Philadelphia Inquirer 'A remarkable novel, one in which a cascade of stories tumbled out before the reader, stories vivid and passionate and human' Washington Post 'Magnificent . . . Allende is a prodigious fabulist, weaving extraordinary tales' Publishers Weekly

MILLIONAIRE BY THIRTY

THE QUICKEST PATH TO EARLY FINANCIAL INDEPENDENCE

Business Plus *Most people know that there are 70 million Baby Boomers in America today....but what is less known is that there are approximately 100 million people in America between the ages of 16 and 30. This generation has just entered, or will soon be entering the work force. And they have no idea how to invest, save, or handle their money. Young people today come out of school having had little or no formal education on the basics of money management. Many have large debts from student loans looming over their heads. And many feel confused and powerless when their pricey educations don't translate into high paying jobs. They feel that their \$30,000-\$40,000 salary is too meager to bother with investing, and they constantly fear that there will be "too much month left at the end of their money." Douglas R. Andrew has shown the parents of this generation a different pathway to financial freedom. Now Doug and his sons, Emron and Aaron - both of whom are in their mid-20s - show the under-30 crowd how they can break from traditional 401k investment plans and instead can find a better way by investing in real estate, budgeting effectively, avoiding unnecessary taxes and using life insurance to create tax-free income. With the principles outlined in Millionaire by Thirty, recent graduates will be earning enough interest on their savings to meet their basic living expenses by the time they're 30. And by the time they're 35, their investments will be earning more money than they are, guaranteeing them a happy, wealthy future.*

PIEZOTRONICS AND PIEZO-PHOTOTRONICS

Springer Science & Business Media *The fundamental principle of piezotronics and piezo-phototronics were introduced by Wang in 2007 and 2010, respectively. Due to the polarization of ions in a crystal that has non-central symmetry in materials, such as the wurtzite structured ZnO, GaN and InN, a piezoelectric potential (piezopotential) is created in the crystal by applying a stress. Owing to the simultaneous possession of piezoelectricity and semiconductor properties, the piezopotential created in the crystal has a strong effect on the carrier transport at the interface/junction. Piezotronics is for devices fabricated using the piezopotential*

as a “gate” voltage to control charge carrier transport at a contact or junction. The piezo-phototronic effect uses the piezopotential to control the carrier generation, transport, separation and/or recombination for improving the performance of optoelectronic devices, such as photon detector, solar cell and LED. The functionality offered by piezotronics and piezo-phototronics are complimentary to CMOS technology. There is an effective integration of piezotronic and piezo-phototronic devices with silicon based CMOS technology. Unique applications can be found in areas such as human-computer interfacing, sensing and actuating in nanorobotics, smart and personalized electronic signatures, smart MEMS/NEMS, nanorobotics and energy sciences. This book introduces the fundamentals of piezotronics and piezo-phototronics and advanced applications. It gives guidance to researchers, engineers and graduate students.

CONCISE ORTHOPAEDIC NOTES

REVISION AID FOR FRCS , EBOT , SICOT AND BOARD EXAMINATIONS

Firas Arnaout These concise revision notes are aimed at candidates preparing for UK and international FRCS (Trauma & Orthopaedics) exit examination as well as the European Board (EBOT) and SICOT diplomas. The book has been written in an easy to read style, with a focus on being an exam candidate’s companion for quick revision on the go. Candidates are usually caught between a busy job and the demands of these challenging exams. This book covers the depth and breadth of Trauma & Orthopaedics knowledge to help candidates sail through the Fellowship exit examinations. We have aimed to provide a high quality one stop concise knowledge bank to cover the whole syllabus of Trauma & Orthopaedics in a well organised bullet point style. This will provide a useful resource for both part 1 (MCQs, EMQs) as well as part 2 (Viva and Clinical) components of the exit examinations. It is an ideal companion to complement your preparation for the examination with the most useful information presented in the most succinct manner. The authors are senior members of the FRCS Mentor Group who have between them ample up to date experience and knowledge with the Fellowship examination. They have attended most postgraduate orthopaedic courses in the UK and internationally, and have reviewed all relevant exam book. They have excellent track records of helping many candidates to pass their exams. This book is complemented by hundreds of diagrams, illustrations, radiographs and clinical images. There are QR codes interspersed within the chapters which when scanned using your smartphone camera, link up to either the corresponding open-access seminal paper or to a YouTube video pertaining to the topic discussed. We look forward to the readers’ feedback that will help us immensely to improve the contents in the next edition for the benefit of future orthopaedic aspirants. Head over to Amazon, Google Books and to BookAuthority.org to leave a review, or write to the email below. We also invite anyone who is interested to become an author of the next edition, or to discuss future collaboration or sponsorship opportunities to contact the editor on: thefrcsmentor@gmail.com

ALGORITHMS ILLUMINATED

GRAPH ALGORITHMS AND DATA STRUCTURES. PART 2

ATOMIC LAYER DEPOSITION OF NANOSTRUCTURED MATERIALS

John Wiley & Sons *Atomic layer deposition, formerly called atomic layer epitaxy, was developed in the 1970s to meet the needs of producing high-quality, large-area fl at displays with perfect structure and process controllability. Nowadays, creating nanomaterials and producing nanostructures with structural perfection is an important goal for many applications in nanotechnology. As ALD is one of the important techniques which offers good control over the surface structures created, it is more and more in the focus of scientists. The book is structured in such a way to fi t both the need of the expert reader (due to the systematic presentation of the results at the forefront of the technique and their applications) and the ones of students and newcomers to the fi eld (through the first part detailing the basic aspects of the technique). This book is a must-have for all Materials Scientists, Surface Chemists, Physicists, and Scientists in the Semiconductor Industry.*

AIEEE PHYSICS

APPLICATIONS OF PIEZOELECTRIC QUARTZ CRYSTAL MICROBALANCES

Elsevier *Applications of Piezoelectric Quartz Crystal Microbalances deals with the theory, design, artifacts, and varied applications of the piezoelectric quartz crystal microbalance. Applications of microbalances range from thin film deposition process control to simultaneous measurement of mass and temperature, analytical chemistry, and space system contamination studies. Stress effects in microbalances are also considered. Comprised of 10 chapters, this volume begins with a historical background and overview of applications of piezoelectric quartz crystal microbalances, followed by an analysis of the theory and practice of microbalances. The role of acoustic impedance in a quartz crystal microbalance and design considerations for a microbalance are given emphasis. Subsequent chapters focus on applications of microbalances in thin film deposition process control; simultaneous measurement of mass and temperature; surface science and analytical chemistry; plasma-assisted etching and space system contamination studies; and aerosol mass measurement. This monograph will be of interest to students and practitioners of physics, chemistry, and materials science.*

SPECTRUM ALGEBRA

Carson-Dellosa Publishing *With the help of Spectrum Algebra for grades 6 to 8, your child develops problem-solving math skills they can build on. This standards-based workbook focuses on middle school algebra concepts like equalities, inequalities, factors, fractions, proportions, functions, and more. Middle school is known for its challenges—let Spectrum ease some stress. Developed by education experts, the Spectrum Middle School Math series strengthens the important home-*

to-school connection and prepares children for math success. Filled with easy instructions and rigorous practice, *Spectrum Algebra* helps children soar in a standards-based classroom!

COMPANION TO CONCRETE MATHEMATICS

MATHEMATICAL TECHNIQUES AND VARIOUS APPLICATIONS

Wiley-Interscience

BEHAVIOUR MANAGEMENT

A WHOLE-SCHOOL APPROACH

SAGE Publications Limited *Praise for the First Edition: "Bill Rogers has an entertaining style and communicates his ideas in a way that will be easily accessible to teachers." —Behaviour UK "This is an extremely readable book on children's behavior and the management of behavior in a classroom and school context. Provides a useful guide to developing a whole-school approach to positive behavior." —Amazon Review* *In this revised and updated edition of the bestseller, the author draws on his extensive experience as an educational consultant and trainer to help teachers and managers develop a whole-school strategy for dealing with student behavior. In a distinctive accessible and entertaining style, the book offers practical suggestions to support teachers as they face the pressures of accountability, assessment and rising concerns about student behavior. This resource covers: Positive discipline and the importance of consistency Specific skills in the language of discipline, both verbal and non-verbal Techniques for managing bullying, aggression, rudeness, and violence Methods to use with behaviorally disordered students The 4Rs--rights, rules, responsibilities, and routines Behavioral consequences including 'time-out' Behavior agreements or 'contracts' Playground management Setting up a behavior management plan and expressing it in policy This book helps strengthen a school's capacity to work as a cohesive, cooperative unit linked with parents and the community to manage behavior successfully.*

REACTIONS IN THE SOLID STATE

Elsevier *The whole of Volume 22 is devoted to the kinetics and mechanisms of the decomposition and interaction of inorganic solids, extended to include metal carboxylates. After an introductory chapter on the characteristic features of reactions in the solid phase, experimental methods of investigation of solid reactions and the measurement of reaction rates are reviewed in Chapter 2 and the theory of solid state kinetics in Chapter 3. The reactions of single substances, loosely grouped on the basis of a common anion since it is this constituent which most frequently undergoes breakdown, are discussed in Chapter 4, the sequence being effectively that of increasing anion complexity. Chapter 5 covers reactions between solids, and includes catalytic processes where one solid component remains unchanged, double compound formation and rate processes involving the interactions of more than three crystalline phases. The final chapter summarises the general conclusions drawn in the text of Chapter 2-5.*

EASY LEARNING SPANISH CONVERSATION: TRUSTED SUPPORT FOR LEARNING (COLLINS EASY LEARNING)

HarperCollins UK *A unique guide to communicating in Spanish. It will help you to find out more about Spanish culture and to practise your spoken Spanish with a free downloadable audio file.*

THE FAIR FIGHT

A NOVEL

Penguin *NAMED A BEST BOOK OF THE YEAR BY BOOKPAGE AND LIBRARY JOURNAL*
The Crimson Petal and the White meets Fight Club: A page-turning novel set in the world of female pugilists and their patrons in late eighteenth-century England. Moving from a filthy brothel to a fine manor house, from the world of street fighters to the world of champions, The Fair Fight is a vivid, propulsive historical novel announcing the arrival of a dynamic new talent. Born in a brothel, Ruth doesn't expect much for herself beyond abuse. While her sister's beauty affords a certain degree of comfort, Ruth's harsh looks set her on a path of drudgery. That is until she meets pugilist patron George Dryer and discovers her true calling—fighting bare knuckles in the prize rings of Bristol. Manor-born Charlotte has a different cross to bear. Scarred by smallpox, stifled by her social and romantic options, and trapped in twisted power games with her wastrel brother, she is desperate for an escape. After a disastrous, life-changing fight sidelines Ruth, the two women meet, and it alters the perspectives of both of them. When Charlotte presents Ruth with an extraordinary proposition, Ruth pushes dainty Charlotte to enter the ring herself and learn the power of her own strength. A gripping, page-turning story about people struggling to transcend the circumstances into which they were born and fighting for their own places in society, The Fair Fight is a raucous, intoxicating tale of courage, reinvention, and fighting one's way to the top.

VOGUE X MUSIC

Abrams *Vogue has always been on the cutting edge of popular culture, and Vogue x Music shows us why. Whether they're contemporary stars or classic idols, whether they made digital albums or vinyl records, the world's most popular musicians have always graced the pages of Vogue. In this book you'll find unforgettable portraits of Madonna beside David Bowie, Kendrick Lamar, and Patti Smith; St. Vincent alongside Debbie Harry, and much more. Spanning the magazine's 126 years, this breathtaking book is filled with the work of acclaimed photographers like Richard Avedon and Annie Leibovitz as well as daring, music-inspired fashion portfolios from Irving Penn and Steven Klein. Excerpts from essential interviews with rock stars, blues singers, rappers, and others are included on nearly every page, capturing exactly what makes each musician so indelible. Vogue x Music is a testament to star power, and proves that some looks are as timeless as your favorite albums.*

JOYFUL MENDING

VISIBLE REPAIRS FOR THE PERFECTLY IMPERFECT THINGS WE LOVE!

Tuttle Publishing *Joyful Mending* shows you how to fix old items of clothing, linens and household objects by turning tears and flaws into beautiful features. Simply by applying a few easy sewing, darning, felting, or crocheting techniques, as well as some sashiko and other favorite embroidery stitches, you can repair your favorite pieces in a transformative way. These techniques don't just save you money, but make your life more joyful, fulfilling and sustainable in an age of disposable "fast fashion." Author Noriko Misumi teaches you her philosophy of mending and reusing items based on the age-old Japanese concepts of mindfulness and Wabi Sabi (an appreciation of old and imperfect things). In her book, she shows you how to: Repair any kind of fabric that is torn, ripped or stained—whether knitted or woven Work with damaged flat or curved surfaces to make them aesthetically pleasing again Create repairs that blend in, as well as bold or whimsical visible repairs Darn your handmade or expensive gloves, sweaters and socks to make them look great again The joy to be found in working with your hands and the personal artistry you discover within yourself lie at the heart of this book. While nothing lasts forever, there's pleasure, as well as purpose, in appreciating age and imperfection. *Joyful Mending* allows you to surround yourself with the things that truly give you joy, whether they were given to you by a loved one, picked up in your travels or simply have a special place in your heart.

EDIBLE SEASHORE

RIVER COTTAGE HANDBOOK

Bloomsbury Publishing In the fifth of the River Cottage Handbook series, John Wright reveals the rich pickings to be had on the seashore - and the team at River Cottage explain how to cook them to perfection. For the forager, the seashore holds surprising culinary potential. In this authoritative, witty book John Wright takes us on a trip to the seaside. But before introducing us to the various species to be harvested, he touches on such practicalities as conservation and the ethics of foraging; safety from tides, rocks and food poisoning; the law and access to the shore, our right to fish, landing sizes and seasons; and equipment such as nets, pots and hooks. Next comes the nitty-gritty: all the main British seashore species that one might be tempted to eat. The conservation status, taste and texture, availability, seasonality, habitat, collecting technique and biology of each species is covered; there are also quite a few gratuitous but fascinating diversions. The species covered include crustacea (brown shrimp, common crab, lobster, prawn, shore crab, spider crab, squat lobster, velvet swimming crab); molluscs (clams, cockle, dog whelk, limpet, mussel, oyster, razor clam, winkle); mushrooms; plants (alexanders, babbington's orache, fennel, frosted orache, marsh samphire, perennial wall rocket, rock samphire, sea beet, sea buckthorn, sea holly, sea kale, sea purslane, sea rocket, spear-leaved orache, wild cabbage, wild thyme); and seaweed (carrageen, dulse, gut weed, laver, pepper dulse, sea lettuce, sugar kelp, kelp). Finally, there are

thirty brilliant recipes. Introduced by Hugh Fearnley-Whittingstall, Edible Seashore is destined to join the other handbooks in the series as an indispensable household reference.