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KEY=FOR - ENGLISH MARQUIS

Science and Mathematics for Engineering

A practical introduction to the engineering science and mathematics required for engineering study and practice. Science and Mathematics for Engineering is an introductory textbook that assumes no prior background in engineering. This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their examinations and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications. A new chapter covers present and future ways of generating electricity, an important topic. John Bird focuses upon engineering examples, enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles. This book includes over 580 worked examples, 1300 further problems, 425 multiple choice questions (with answers), and contains sections covering the mathematics that students will require within their engineering studies, mechanical applications, electrical applications and engineering systems. This book is supported by a companion website of materials that can be found at www.routledge/cw/bird. This resource includes fully worked solutions of all the further problems for students to access, and the full solutions and marking schemes for the revision tests found within the book for instructor use. In addition, all 447 illustrations will be available for downloading by lecturers.

Science for Engineering

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

Science for Engineering

Elsevier **In this book John Bird introduces engineering science through examples rather than theory - enabling students to develop a sound understanding of engineering systems in terms of the basic scientific laws and principles. The book includes 575 worked examples, 1200 problems, 440 multiple choice questions (answers provided), and the maths that students will require is also provided in a separate section within the book. The new edition of Science for Engineering presents the fundamentals of the subject, and has also been brought fully in line with the compulsory Science and Mathematics units in the new specifications for BTEC National and BTEC First courses. It also offers full coverage of the compulsory units of AVCE and Intermediate GNVQ (Science and Mathematics). Throughout the book assessment papers are provided that are ideal for use as tests or homework. These are the only problems where answers are not provided in the book. Full worked solutions are available to lecturers only as a free download from the Newnes website:**

www.newnespress.com * A student-friendly text that does not require any background in engineering * Learn by example: over 1,200 problems, 500 worked examples * Includes assesment papers - worked solutions in a free lecturer's manual

Newnes Engineering Science Pocket Book

Elsevier **Newnes Engineering Science Pocket Book provides a readily available reference to the essential engineering science formulae, definitions, and general information needed during studies and/or work situation. This book consists of three main topics— general engineering science, electrical engineering science, and mechanical engineering science. In these topics, this text specifically discusses the atomic structure of matter, standard quality symbols and units, chemical effects of electricity, and capacitors and capacitance. The alternating currents and voltages, three phase systems, D.C. machines, and A.C. motors are also elaborated. This compilation likewise covers the linear momentum and impulse, effects of forces on materials, and pressure in fluids. This publication is useful for technicians and engineers, as well as students studying for technician certificates and diplomas, GCSE, and A levels.**

Higher Engineering Mathematics

Routledge **Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.**

Mechanical Engineering Principles

Routledge **"Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 600 problems and 400 worked answers.The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"--**

Basic Engineering Mathematics

Routledge **Unlike most engineering maths texts, this book does not assume a firm grasp of GCSE maths, and unlike low-level general maths texts, the content is tailored specifically for the needs of engineers. The result is a unique book written for engineering students, which takes a starting point below GCSE level. Basic Engineering Mathematics is therefore ideal for students of a wide range of abilities, and especially for those who find the theoretical side of mathematics difficult. All students taking vocational engineering courses who require fundamental knowledge of mathematics for engineering and do not have prior knowledge beyond basic school mathematics, will find this book essential reading. The content has been designed primarily to meet the needs of students studying Level 2 courses, including GCSE Engineering and Intermediate GNVQ, and is matched to BTEC First specifications. However Level 3 students will also find this text to be a useful resource for getting to grips with the essential mathematics concepts needed for their study, as the compulsory topics required in BTEC National and AVCE / A Level courses are also addressed. The fourth edition incorporates new material on adding waveforms, graphs with logarithmic scales, and inequalities – key topics needed for GCSE and Level 2 study. John Bird's approach is based on numerous worked examples, supported by 600 worked problems, followed by 1050 further problems within exercises included throughout the text. In addition, 15 Assignments are included at regular intervals. Ideal for use as tests or homework, full solutions to the Assignments are supplied in the accompanying Instructor's Manual, available as a free download for lecturers from http://textbooks.elsevier.com.**

Mathematics Pocket Book for Engineers and Scientists

Routledge **This compendium of essential formulae, definitions, tables and general information provides the mathematical information required by engineering students, technicians, scientists and professionals in day-to-day engineering practice. A practical and versatile reference source, now in its fifth edition, the layout has been changed and streamlined to ensure the information is even more quickly and readily available – making it a handy companion on-site, in the office as well as for academic study. It also acts as a practical revision guide for those undertaking degree courses in engineering and science, and for BTEC Nationals, Higher Nationals and NVQs, where mathematics is an underpinning requirement of the course. All the essentials of engineering mathematics – from algebra, geometry and trigonometry to logic circuits, differential equations and probability – are covered, with clear and succinct explanations and illustrated with over 300 line drawings and 500 worked examples based in real-world application. The emphasis throughout the book is on providing the practical tools needed to solve mathematical problems quickly and efficiently in engineering contexts. John Bird's presentation of this core material puts all the answers at your fingertips.**

Basic Engineering Mathematics

Routledge **Now in its seventh edition, Basic Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.**

Electrical Circuit Theory and Technology

Routledge **Electrical Circuit Theory and Technology is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at http://textbooks.elsevier.com/. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.**

Engineering Mathematics

Taylor & Francis **Now in its eighth edition, Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams. John Bird's approach is based on worked examples and interactive problems. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for a range of Level 2 and 3 engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae and multiple choice tests.**

Engineering Mathematics Pocket Book

Routledge **"This compendium of essential formulae, definitions, tables and general information provides the mathematical information required by students, technicians, scientists and engineers in day-to-day engineering practice. All the essentials of engineering mathematics - from algebra, geometry and trigonometry to logic circuits, differential equations and probability - are covered, with clear and succinct explanations and illustrated with over 300 line drawings and 500 worked examples based in real-world application. The**

emphasis throughout the book is on providing the practical tools needed to solve mathematical problems quickly and efficiently in engineering contexts." --Publisher.

Bird's Higher Engineering Mathematics

Taylor & Francis **Now in its ninth edition, Bird's Higher Engineering Mathematics has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, supported by practical engineering examples and applications to ensure that readers can relate theory to practice. Some 1,200 engineering situations/problems have been 'flagged-up' to help demonstrate that engineering cannot be fully understood without a good knowledge of mathematics. The extensive and thorough topic coverage makes this an ideal text for undergraduate degree courses, foundation degrees, and for higher-level vocational courses such as Higher National Certificate and Diploma courses in engineering disciplines. Its companion website at www.routledge.com/cw/bird provides resources for both students and lecturers, including full solutions for all 2,100 further questions, lists of essential formulae, multiple-choice tests, and illustrations, as well as full solutions to revision tests for course instructors.**

Electrical and Electronic Principles and Technology

Taylor & Francis **This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates.**

Bird's Comprehensive Engineering Mathematics

Routledge **Studying engineering, whether it is mechanical, electrical or civil, relies heavily on an understanding of mathematics. This textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them in real-life engineering problems. It deliberately starts at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to the level required. Students who have not studied mathematics for some time will find this an excellent refresher. Each chapter starts with the basics before gently increasing in complexity. A full outline of essential definitions, formulae, laws and procedures is presented, before real world practical situations and problem solving demonstrate how the theory is applied. Focusing on learning through practice, it contains simple explanations, supported by 1600 worked problems and over 3600 further problems contained within 384 exercises throughout the text. In addition, 35 Revision tests together with 9 Multiple-choice tests are included at regular intervals for further strengthening of knowledge. An interactive companion website provides material for students and lecturers, including detailed solutions to all 3600 further problems.**

Bird's Basic Engineering Mathematics

Routledge **Now in its eighth edition, Bird's Basic Engineering Mathematics has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, supported by practical engineering examples and applications to ensure that readers can relate theory to practice. Some 1,000 engineering situations/problems have been 'flagged-up' to help demonstrate that engineering cannot be fully understood without a good knowledge of mathematics. The extensive and thorough coverage makes this a great text for introductory level engineering courses – such as for aeronautical, construction, electrical, electronic, mechanical, manufacturing engineering and vehicle technology – including for BTEC First, National and Diploma syllabuses, City & Guilds Technician Certificate and Diploma syllabuses, and even for GCSE revision. Its companion website provides extra materials for students and lecturers, including full solutions for all 1,700 further questions, lists of essential formulae, multiple choice tests, and illustrations, as well as full solutions to revision tests for course instructors.**

Mechanics of Solids

Routledge **An introduction to the fundamental concepts of solid materials and their properties The primary recommended text of the Council of Engineering Institutions for university undergraduates studying the mechanics of solids New chapters covering revisionary mathematics, geometrical properties of symmetrical sections, bending stresses in beams, composites and the finite element method Free electronic resources and web downloads support the material contained within this book Mechanics of Solids provides an**

introduction to the behaviour of solid materials and their properties, focusing upon the fundamental concepts and principles of statics and stress analysis. Essential reading for first year undergraduates, the mathematics in this book has been kept as straightforward as possible and worked examples are used to reinforce key concepts. Practical stress and strain scenarios are also covered including stress and torsion, elastic failure, buckling, bending, as well as examples of solids such as thin-walled structures, beams, struts and composites. This new edition includes new chapters on revisionary mathematics, geometrical properties of symmetrical sections, bending stresses in beams, composites, the finite element method, and Ross's computer programs for smartphones, tablets and computers.

Understanding Engineering Mathematics

Routledge **Studying engineering, whether it is mechanical, electrical or civil relies heavily on an understanding of mathematics. This new textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them to solve real-life engineering problems. It deliberately starts at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to the level required. Students who have not studied mathematics for some time will find this an excellent refresher. Each chapter starts with the basics before gently increasing in complexity. A full outline of essential definitions, formulae, laws and procedures are introduced before real world situations, practicals and problem solving demonstrate how the theory is applied. Focusing on learning through practice, it contains examples, supported by 1,600 worked problems and 3,000 further problems contained within exercises throughout the text. In addition, 34 revision tests are included at regular intervals. An interactive companion website is also provided containing 2,750 further problems with worked solutions and instructor materials**

Electrical Principles and Technology for Engineering

Elsevier **The aim of this book is to introduce students to the basic electrical and electronic principles needed by technicians in fields such as electrical engineering, electronics and telecommunications. The emphasis is on the practical aspects of the subject, and the author has followed his usual successful formula, incorporating many worked examples and problems (answers supplied) into the learning process. Electrical Principles and Technology for Engineering is John Bird's core text for Further Education courses at BTEC levels N11 and N111 and Advanced GNVQ. It is also designed to provide a comprehensive introduction for students on a variety of City & Guilds courses, and any students or technicians requiring a sound grounding in Electrical Principles and Electrical Power Technology.**

Mathematics Pocket Book for Engineers and Scientists

This compendium of essential formulae, definitions, tables and general information provides the mathematical information required by engineering students, technicians, scientists and professionals in day-to-day engineering practice. A practical and versatile reference source, now in its fifth edition, the layout has been changed and streamlined to ensure the information is even more quickly and readily available - making it a handy companion on-site, in the office as well as for academic study. It also acts as a practical revision guide for those undertaking degree courses in engineering and science, and for BTEC Nationals, Higher Nationals and NVQs, where mathematics is an underpinning requirement of the course. All the essentials of engineering mathematics - from algebra, geometry and trigonometry to logic circuits, differential equations and probability - are covered, with clear and succinct explanations and illustrated with over 300 line drawings and 500 worked examples based in real-world application. The emphasis throughout the book is on providing the practical tools needed to solve mathematical problems quickly and efficiently in engineering contexts. John Bird's presentation of this core material puts all the answers at your fingertips.

Engineering Mathematics

Routledge **First published in 2010, Engineering Mathematics is a valuable contribution to the field of Further Education.**

Bird's Engineering Mathematics

Taylor & Francis **Now in its ninth edition, Bird's Engineering Mathematics has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, supported by practical engineering examples and applications to ensure that readers can relate theory to practice. Some 1,300 engineering situations/problems have been 'flagged-up' to help demonstrate that engineering cannot be fully understood without a good knowledge of mathematics. The extensive and thorough topic coverage makes this a great text for a range of level 2 and 3 engineering courses – such as for aeronautical, construction, electrical, electronic, mechanical, manufacturing engineering and vehicle technology – including for BTEC First, National and Diploma syllabuses, City & Guilds Technician Certificate and Diploma syllabuses, and even for GCSE and A-level revision. Its companion website at www.routledge.com/cw/bird provides resources for both students and lecturers, including full solutions for all 2,000 further questions, lists of essential formulae, multiple-choice tests, and illustrations, as well as full solutions to revision tests for course instructors.**

Economy and State

John Wiley & Sons **Should governments be involved in economic affairs? Challenging prevailing wisdom about the benefits of self-regulating markets, Nina Bandelj and Elizabeth Sowers offer a uniquely sociological perspective to emphasize that states can never be divorced from economy. From defining property rights and regulating commodification of labor to setting corporate governance standards and international exchange rules, the state continuously manages the functioning of markets and influences economic outcomes for individuals, firms and nations. The authors bring together classical interventions and cutting-edge contemporary research in economic sociology to discuss six broad areas of economy/state connection: property, money, labor, firms, national economic growth, and global economic exchange. A wealth of empirical examples and illustrations reveals that even if the nature of state influence on economy varies across contexts, it is always dependent on social forces. This accessible and engaging book will be essential reading for upper-level students of economic sociology, and those interested in the major economic dilemmas of our times. .**

Religion in the Contemporary World

A Sociological Introduction

John Wiley & Sons **In the new edition of this widely praised text, Alan Aldridge examines the complex realities of religious belief, practice and institutions. Religion is a powerful and controversial force in the contemporary world, even in supposedly secular societies. Almost all societies seek to cultivate religions and faith communities as sources of social stability and engines of social progress. They also try to combat real and imagined abuses and excess, regulating cults that brainwash vulnerable people, containing fundamentalism that threatens democracy and the progress of science, and identifying terrorists who threaten atrocities in the name of religion. The third edition has been carefully revised to make sure it is fully up to date with recent developments and debates. Major themes in the revised edition include the recently erupted 'culture war' between progressive secularists and conservative believers, the diverse manifestations of 'fundamentalism' and their impact on the wider society, new individual forms of religious expression in opposition to traditional structures of authority, and the backlash against 'multiculturalism' with its controversial implications for the social integration of ethnic and religious minority communities. Impressive in its scholarly analysis of a vibrant and challenging aspect of human societies, the third edition will appeal strongly to students taking courses in the sociology of religion and religious studies, as well as to everyone interested in the place of religion in the contemporary world.**

Electrical and Electronic Principles and Technology

Routledge **This book is written for the 6,000 BTEC National Engineering students who follow the electrical pathway each year. The course has a brand new syllabus for 2010 and Electrical and Electronic Principles and Technology has been fully updated to reflect these changes. In this 4th edition, John Bird introduces electrical principles and technology through examples rather than theory covering - enabling level three students to develop a sound understanding of the principles needed for careers in electrical engineering, electronics and telecommunications. The book includes numerous worked problems, multiple-choice and short-answer questions, exercises and revision tests and is supported with**

free online instructor's and solutions manuals. Matched to the latest 2010 BTEC Engineering syllabus Student-friendly approach with numerous worked problems, multiple-choice and short-answer questions, exercises and revision tests In colour and supported with free online instructor's and solutions manuals

The Story of Electricity

Simon and Schuster **The purpose of this little book is to present the essential facts of electrical science in a popular and interesting way, as befits the scheme of the series to which it belongs. Electrical phenomena have been observed since the first man viewed one of the most spectacular and magnificent of them all in the thunderstorm, but the services of electricity which we enjoy are the product solely of scientific achievement in the nineteenth century. It is to these services that the main part of the following discussion is devoted.**

The Christian Monitors

The Church of England and the Age of Benevolence, 1680-1730

Yale University Press **div This original and persuasive book examines the moral and religious revival led by the Church of England before and after the Glorious Revolution, and shows how that revival laid the groundwork for a burgeoning civil society in Britain. After outlining the Church of England's key role in the increase of voluntary, charitable, and religious societies, Brent Sirota examines how these groups drove the modernization of Britain through such activities as settling immigrants throughout the empire, founding charity schools, distributing devotional literature, and evangelizing and educating merchants, seamen, and slaves throughout the British empire—all leading to what has been termed the "age of benevolence."/DIV**

Bird's Electrical Circuit Theory and Technology

"This undergraduate and advanced pre-degree textbook includes 850 worked examples. Now with glass batteries, climate change and the future of electricity production. Its companion website includes multiple choice tests, laboratory experiments, and 1400 questions and solutions"--

Liquid Love

On the Frailty of Human Bonds

John Wiley & Sons **This book is about the central figure of our contemporary, 'liquid modern' times – the man or woman with no bonds, and particularly with none of the fixed or durable bonds that would allow the effort of self-definition and self-assertion to come to a rest. Having no permanent bonds, the denizen of our liquid modern society must tie whatever bonds they can to engage with others, using their own wits, skill and dedication. But none of these bonds are guaranteed to last. Moreover, they must be tied loosely so that they can be untied again, quickly and as effortlessly as possible, when circumstances change – as they surely will in our liquid modern society, over and over again. The uncanny frailty of human bonds, the feeling of insecurity that frailty inspires, and the conflicting desires to tighten the bonds yet keep them loose, are the principal themes of this important new book by Zygmunt Bauman, one of the most original and influential social thinkers of our time. It will be of great interest to students and scholars in sociology and in the social sciences and humanities generally, and it will appeal to anyone interested in the changing nature of human relationships.**

When Can I Stop Running?

John Podlaski **John Podlaski's encore Vietnam War novel brings back John ('Polack') Kowalski, the central character in 'Cherries', and introduces us to Louis ('LG') Gladwell, his irrepressible black friend. Polack and LG are a 'Salt and Pepper' team, best buddies and brothers in a way that only those who have fought side-by-side in a war can ever truly**

understand. The year is 1970, and the story follows the two soldiers - impressionable Detroit teenagers - during their long night in a Listening Post ('LP'), some 500 meters beyond the bunker line of the new firebase. Their assignment as a "human early warning system", is to listen for enemy activity and forewarn the base of any potential dangers. As they were new to the "Iron Triangle" and its reputation, little did they know that units before them lost dozens of soldiers in this nightly high-risk task and referred to those assigned as "bait for the enemy" and "sacrificial lambs". Sitting in the pitch black tropical jungle - with visibility at less than two feet - John's imagination takes hold throughout the agonizing night, and at times, transports him back to some of his most vivid childhood memories - innocent, but equally terrifying at the time. As kids, we instinctively run as fast as we can to escape imaginary or perceived danger, but as soldiers, men are trained to conquer their fears and develop the confidence to stand their ground and fight. Running is not an option. In 'When Can I Stop Running?' the author juxtaposes his nightmarish hours in the bush with some of his most heart-pounding childhood escapades. Readers will relate to the humorous childish antics with amusement; military veterans will find themselves relating to both of the entertaining and compelling recollections.

The Comfort of Things

John Wiley & Sons **What do we know about ordinary people in our towns and cities, about what really matters to them and how they organize their lives today? This book visits an ordinary street and looks into thirty households. It reveals the aspirations and frustrations, the tragedies and accomplishments that are played out behind the doors. It focuses on the things that matter to these people, which quite often turn out to be material things – their house, the dog, their music, the Christmas decorations. These are the means by which they express who they have become, and relationships to objects turn out to be central to their relationships with other people – children, lovers, brothers and friends. If this is a typical street in a modern city like London, then what kind of society is this? It's not a community, nor a neighbourhood, nor is it a collection of isolated individuals. It isn't dominated by the family. We assume that social life is corrupted by materialism, made superficial and individualistic by a surfeit of consumer goods, but this is misleading. If the street isn't any of these things, then what is it? This brilliant and revealing portrayal of a street in modern London, written by one the most prominent anthropologists, shows how much is to be gained when we stop lamenting what we think we used to be and focus instead on what we are now becoming. It reveals the forms by which ordinary people make sense of their lives, and the ways in which objects become our companions in the daily struggle to make life meaningful.**

Axel Honneth

John Wiley & Sons **With his insightful and wide-ranging theory of recognition, AxelHonneth has decisively reshaped the Frankfurt School tradition ofcritical social theory. Combining insights from philosophy,sociology, psychology, history, political economy, and culturalcritique, Honneth's work proposes nothing less than anaccount of the moral infrastructure of human sociality and itsrelation to the perils and promise of contemporary sociallife. This book provides an accessible overview of Honneth's maincontributions across a variety of fields, assessing the strengthsand weaknesses of his thought. Christopher Zurn clearly explainsHonneth's multi-faceted theory of recognition and itsrelation to diverse topics: individual identity, morality, activistmovements, progress, social pathologies, capitalism, justice,freedom, and critique. In so doing, he places Honneth'stheory in a broad intellectual context, encompassing classic socialtheorists such as Kant, Hegel, Marx, Freud, Dewey, Adorno andHabermas, as well as contemporary trends in social theory andpolitical philosophy. Treating the full range of Honneth'scorpus, including his major new work on social freedom anddemocratic ethical life, this book is the most up-to-date guideavailable. Axel Honneth will be invaluable to students and scholarsworking across the humanities and social sciences, as well asanyone seeking a clear guide to the work of one of the mostinfluential theorists writing today.**

Future War

John Wiley & Sons **Will tomorrow's wars be dominated by autonomous drones, land robots and warriors wired into a cybernetic network which can read their thoughts? Will war be fought with greater or lesser humanity? Will it be played out in cyberspace and further afield in Low Earth Orbit? Or will it be fought more intensely still in the sprawling cities of the developing world, the grim black holes of social exclusion on our increasingly unequal planet? Will the Great Powers reinvent conflict between themselves or is war destined to become much 'smaller' both in terms of its actors and the beliefs for which they will be willing to kill? In this illuminating new book Christopher Coker takes us on an incredible journey into the future of warfare. Focusing on contemporary trends that are changing the nature and dynamics of armed conflict, he shows how conflict will continue to evolve in ways that are unlikely to render our century any less bloody than the last. With insights from philosophy, cutting-edge scientific research and popular culture, Future War is a compelling and thought-provoking meditation on the shape of war to come.**

Social Capital

John Wiley & Sons **Social capital is a principal concept across the social sciences and has readily entered into mainstream discourse. In short, it is popular. However, this popularity has taken its toll. Social capital suffers from a lack of consensus because of the varied ways it is measured, defined, and deployed by different researchers. It has been put to work in ways that stretch and confuse its conceptual value, blurring the lines between networks, trust, civic engagement, and any type of collaborative action. This clear and concise volume presents the diverse theoretical approaches of scholars from Marx, Coleman, and Bourdieu to Putnam, Fukuyama, and Lin, carefully analyzing their commonalities and differences. Joonmo Son categorizes this wealth of work according to whether its focus is on the necessary preconditions for social capital, its structural basis, or its production. He distinguishes between individual and collective social capital (from shared resources of a personal network to pooled assets of a whole society), and interrogates the practical impact social capital has had in various policy areas (from health to economic development). Social Capital will be of immense value to readers across the social sciences and practitioners in relevant fields seeking to understand this mercurial concept.**

Engineering Mathematics Through Applications

Bloomsbury Publishing **This popular, world-wide selling textbook teaches engineering mathematics in a step-by-step fashion and uniquely through engineering examples and exercises which apply the techniques right from their introduction. This contextual use of mathematics is highly motivating, as with every topic and each new page students see the importance and relevance of mathematics in engineering. The examples are taken from mechanics, aerodynamics, electronics, engineering, fluid dynamics and other areas. While being general and accessible for all students, they also highlight how mathematics works in any individual's engineering discipline. The material is often praised for its careful pace, and the author pauses to ask questions to keep students reflecting. Proof of mathematical results is kept to a minimum. Instead the book develops learning by investigating results, observing patterns, visualizing graphs and answering questions using technology. This textbook is ideal for first year undergraduates and those on pre-degree courses in Engineering (all disciplines) and Science. New to this Edition: - Fully revised and improved on the basis of student feedback - New sections - More examples, more exam questions - Vignettes and photos of key mathematicians**

Shadow Engineer

Book One in the Sciquest Legacy Series

A young Silicon Valley engineer stumbles into a hidden company with advanced technologies that could change the world. But at the same time, he learns this company, his life and the rest of civilization is threatened by a force even more advanced. And the opposition has a head start. The startling discoveries he encounters could point to the origin of life on Earth, and maybe its final destruction. With the help of a beautiful and mysterious astrophysicist and a retired math professor, it's a race against time to expose the conspiracy. Following the clues takes them on a frantic chase to the dark side of the Moon in an experimental spacecraft and back to the streets of San Francisco. What he can't out-smart, he has to out fight. In the battle to save the Earth he must rely on his Silicon Valley training and ability to leverage the new technologies at his disposal. But will it be enough? What can one engineer, an astrophysicist and an old professor do to save the Earth? Whatever it takes.

When Professionals Weep

Emotional and Countertransference Responses in Palliative and End-of-Life Care

Routledge **When Professionals Weep speaks to the humbling and often transformational moments that clinicians experience in their careers as caregivers and healers—moments when it is often hard to separate the influence of our own emotional responses and worldviews from the patient's or family's. When Professionals Weep addresses these poignant**

moments—when the professional's personal experiences with trauma, illness, death, and loss can subtly, often stealthily, surface and affect the helping process. This edition, like the first, both validates clinicians' experiences and also helps them process and productively address compassion fatigue, burnout, and secondary traumatic stress. New material in the second edition includes increased emphasis on the burgeoning fields of hospice and palliative care, organizational countertransference, mindfulness, and compassionate practice. It includes thought-provoking cases, self-assessments, and exercises that can be used on an individual, dyadic, or group basis. This volume is an invaluable handbook for practitioners in the fields of medicine, mental health, social work, nursing, chaplaincy, the allied health sciences, psychology, and psychiatry.

Proxy Warfare

John Wiley & Sons **Proxy wars represent a perennial strand in the history of conflict. The appeal of 'warfare on the cheap' has proved an irresistible strategic allure for nations through the centuries. However, proxy wars remain a missing link in contemporary war and security studies. In this timely book Andrew Mumford sheds new light on the dynamics and lineage of proxy warfare from the Cold War to the War on Terror, whilst developing a cogent conceptual framework to explain their appeal. Tracing the political and strategic development of proxy wars throughout the last century, they emerge as a dominant characteristic of contemporary conflict. The book ably shows how proxy interventions often prolong existing conflicts given the perpetuity of arms, money and sometimes proxy fighters sponsored by third party donors. Furthermore, it emphasizes why, given the direction of the War on Terror, the rise of China as a global power, and the prominence now achieved by non-state actors in the 'Arab Spring', the phenomenon of proxy warfare is increasingly relevant to understandings of contemporary security. Proxy Warfare is an indispensable guide for students and scholars interested in the evolution and potential future direction of war and conflict in the modern world.**

The Mathematics of the Standard Model of Physics

The Mechanics of Our Universe

CreateSpace **The Standard Model is renormalizable and mathematically self-consistent, however despite having huge and continued successes in providing experimental predictions it does leave some unexplained phenomena. In particular, although the Physics of Special Relativity is incorporated, general relativity is not, and The Standard Model will fail at energies or distances where the graviton is expected to emerge. Therefore in a modern field theory context, it is seen as an effective field theory. The Standard Model is a quantum field theory, meaning its fundamental objects are quantum fields which are defined at all points in space-time. These fields are: 1.) the fermion eld, which accounts for "matter particles"; 2.) the electroweak boson elds W1, W2, W3, and B; 3.) the gluon eld, G; and 4.) the Higgs eld, These are quantum rather than classical elds and that has the mathematical consequence that they are operator-valued. In particular, values of the elds generally do not commute. As operators, they act upon the quantum state (ket vector). This book explains the mathematics and logic that supports the latest models of cosmology and particle physics as they are understood in the Grand Unification Theory (G.U.T.) and discusses the efforts and hurdles that are involved in taking the next step to defining an acceptable Theory of Everything (T.O.E.)."**

Benevolent

Gaby LeFevre is a suburban, Midwestern firecracker, growing up in the 80s and 90s and saving the world one homeless person, centenarian, and orphan at a time. With her crew of twin sister, Annie, smitten Mikhail, and frenemy Mel, she's a pamphlet-wielding humanitarian, tackling a broken world full of heroes and heroines, villains and magical seeds, and Northwyth stories. Beginning with a roadkill-burying nine-year-old and a gas-leak explosion, it follows Gaby as she traverses childhood and young adulthood with characteristic intensity and a penchant for disaster. Meanwhile, the large cast of compelling characters entertains and the Northwyth legends draw you into their magic.