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The UNSW School of Mechanical and Manufacturing Engineering is proud to share the announcement of their 2020 performance in the Academic Ranking of World Universities (ARWU). In the 2020 ARWU... Featured Story. MME Lecturer Leads Team to Victory at the 2019 UNSW Maker Games. Dr Edward Obbard, Lecturer in the UNSW School of Mechanical and Manufacturing Engineering, and his team of five ...

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The rapidly growing field of computational social choice, at the intersection of computer science and economics, deals with the computational aspects of collective decision making. This handbook, written by thirty-six prominent members of the computational social

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choice community, covers the field comprehensively. Chapters devoted to each of the field's major themes offer detailed introductions. Topics include voting theory (such as the computational complexity of winner determination and manipulation in elections), fair allocation (such as algorithms for dividing divisible and indivisible goods), coalition formation (such as matching and hedonic games), and many more. Graduate students, researchers, and professionals in computer science, economics, mathematics, political science, and philosophy will benefit from this accessible and self-contained book.

Technology has become increasingly important to both the function and our understanding of the justice process.

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Many forms of criminal behaviour are highly dependent upon technology, and crime control has become a predominantly technologically driven process – one where “traditional” technological aids such as fingerprinting or blood sample analysis are supplemented by a dizzying array of tools and techniques including surveillance devices and DNA profiling. This book offers the first comprehensive and holistic overview of global research on technology, crime and justice. It is divided into five parts, each corresponding with the key stages of the offending and justice process: Part I addresses the current conceptual understanding of technology within academia and the criminal justice system; Part II gives a comprehensive overview of the current relations between technology and

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criminal behaviour; Part III explores the current technologies within crime control and the ways in which technology underpins contemporary formal and informal social control; Part IV sets out some of the fundamental impacts technology is now having upon the judicial process; Part V reveals the emerging technologies for crime, control and justice and considers the extent to which new technology can be effectively regulated. This landmark collection will be essential reading for academics, students and theorists within criminology, sociology, law, engineering and technology, and computer science, as well as practitioners and professionals working within and around the criminal justice system.

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This book is concerned with the topical problems of mechanics of advanced composite materials whose mechanical properties are controlled by high-strength and high-stiffness continuous fibers embedded in polymeric, metal, or ceramic matrix. Although the idea of combining two or more components to produce materials with controlled properties has been known and used from time immemorial, modern composites were only developed several decades ago and have now found intensive application in different fields of engineering, particularly in aerospace structures for which high strength-to-weight and stiffness-to-weight ratios are required. There already exist numerous publications that cover anisotropic elasticity, mechanics of composite materials, design, analysis,

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fabrication, and application of composite structures but the difference between this book and the existing ones is that this is of a more specific nature. It covers specific features of material behaviour such as nonlinear elasticity, plasticity, creep, and structural nonlinearity and discusses in detail the problems of material micro- and macro-mechanics that are only slightly touched in existing books, e.g. stress diffusion in a unidirectional material with broken fibers, physical and statistical aspects of fiber strength, coupling effects in anisotropic and laminated materials, etc. The authors are designers of composite structures who were involved in practically all the main Soviet and then Russian projects in composite technology, and the permission of the Russian Composite

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Center - Central Institute of Special Machinery (CRISM) to use in this book the pictures of structures developed and fabricated in CRISM as part of the joint research and design project is much appreciated. Mechanics and Analysis of Composite Materials consists of eight chapters progressively covering all structural levels of composite materials from their components through elementary plies and layers to laminates.

Electronic business is a major force shaping the digital world. Yet, despite of years of research and standardization efforts, many problems persist that prevent e-business from achieving its full potential. Problems arise from different data vocabularies, classification schemas, document names, structures, exchange formats

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Handbook

and their varying roles in business processes. Non-standardized business terminology, lack of common acceptable and understandable processes (grammar), and lack of common dialog rules (protocols) create barriers to improving electronic business processes. Handbook of Research on E-Business Standards and Protocols: Documents, Data and Advanced Web Technologies contains an overview of new achievements in the field of e-business standards and protocols, offers in-depth analysis of and research on the development and deployment of cutting-edge applications, and provides insight into future trends. This book unites new research that promotes harmony and agreement in business processes and attempts to choreograph business protocols and orchestrate semantic

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alignment between their vocabularies and grammar. Additionally, this Handbook of Research discusses new approaches to improving standards and protocols, which include the use of intelligent agents and Semantic Web technology.

Fire and combustion presents a significant engineering challenge to mechanical, civil and dedicated fire engineers, as well as specialists in the process and chemical, safety, buildings and structural fields. We are reminded of the tragic outcomes of "untenable" fire disasters such as at King's Cross underground station or Switzerland's St Gotthard tunnel. In these and many other cases, computational fluid dynamics (CFD) is at the forefront of active research into unravelling the probable causes of

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fires and helping to design structures and systems to ensure that they are less likely in the future. Computational fluid dynamics (CFD) is routinely used as an analysis tool in fire and combustion engineering as it possesses the ability to handle the complex geometries and characteristics of combustion and fire. This book shows engineering students and professionals how to understand and use this powerful tool in the study of combustion processes, and in the engineering of safer or more fire resistant (or conversely, more fire-efficient) structures. No other book is dedicated to computer-based fire dynamics tools and systems. It is supported by a rigorous pedagogy, including worked examples to illustrate the capabilities of different models, an introduction to the essential aspects of

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fire physics, examination and self-test exercises, fully worked solutions and a suite of accompanying software for use in industry standard modeling systems. · Computational Fluid Dynamics (CFD) is widely used in engineering analysis; this is the only book dedicated to CFD modeling analysis in fire and combustion engineering · Strong pedagogic features mean this book can be used as a text for graduate level mechanical, civil, structural and fire engineering courses, while its coverage of the latest techniques and industry standard software make it an important reference for researchers and professional engineers in the mechanical and structural sectors, and by fire engineers, safety consultants and regulators · Strong author team (CUHK is a recognized centre of

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excellence in fire eng) deliver an expert package for students and professionals, showing both theory and applications. Accompanied by CFD modeling code and ready to use simulations to run in industry-standard ANSYS-CFX and Fluent software.

The relationship of supervisor to student has traditionally been seen as one of apprenticeship, in which much learning is tacit, with the expectation that the student will become much like the tutor. The changing demographics of higher education in conjunction with imperatives of greater accountability and support for research students have rendered this scenario both less likely and less desirable and unfortunately many supervisors are challenged by the task of guiding non-native speaker students to completion.

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This handbook is the ideal guide for all supervisors working with undergraduate and postgraduate non-native speaker students writing a thesis or dissertation in English as it explicitly unpacks thesis writing, using language that is accessible to research supervisors from any discipline.

The Regulatory Technology Handbook
The transformational potential of RegTech has been confirmed in recent years with US\$1.2 billion invested in start-ups (2017) and an expected additional spending of US\$100 billion by 2020. Regulatory technology will not only provide efficiency gains for compliance and reporting functions, it will radically change market structure and supervision. This book, the first of its kind, is providing a comprehensive

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and invaluable source of information aimed at corporates, regulators, compliance professionals, start-ups and policy makers. The REGTECH Book brings into a single volume the curated industry expertise delivered by subject matter experts. It serves as a single reference point to understand the RegTech eco-system and its impact on the industry. Readers will learn foundational notions such as:

- The economic impact of digitization and datafication of regulation
- How new technologies (Artificial Intelligence, Blockchain) are applied to compliance
- Business use cases of RegTech for cost-reduction and new product origination
- The future regulatory landscape affecting financial institutions, technology companies and other industries

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by compliance professionals, regulators, entrepreneurs and business leaders, the RegTech Book represents an invaluable resource that paves the way for 21st century regulatory innovation.

The most comprehensive, authoritative and widely cited reference on photovoltaic solar energy Fully revised and updated, the Handbook of Photovoltaic Science and Engineering, Second Edition incorporates the substantial technological advances and research developments in photovoltaics since its previous release. All topics relating to the photovoltaic (PV) industry are discussed with contributions by distinguished international experts in the field. Significant new coverage includes: three completely new

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chapters and six chapters with new authors device structures, processing, and manufacturing options for the three major thin film PV technologies high performance approaches for multijunction, concentrator, and space applications new types of organic polymer and dye-sensitized solar cells economic analysis of various policy options to stimulate PV growth including effect of public and private investment Detailed treatment covers: scientific basis of the photovoltaic effect and solar cell operation the production of solar silicon and of silicon-based solar cells and modules how choice of semiconductor materials and their production influence costs and performance making measurements on solar cells and modules and how to relate results under standardised test conditions to

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real outdoor performance photovoltaic system installation and operation of components such as inverters and batteries. architectural applications of building-integrated PV Each chapter is structured to be partially accessible to beginners while providing detailed information of the physics and technology for experts. Encompassing a review of past work and the fundamentals in solar electric science, this is a leading reference and invaluable resource for all practitioners, consultants, researchers and students in the PV industry.

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