

Engineering Your Future An Australasian

Green Information and Communication Systems for a Sustainable Future covers the fundamental concepts, applications, algorithms, protocols, new trends, challenges, and research results in the area of Green Information and Communication Systems. This book provides the reader with up-to-date information on core and specialized issues, making it highly suitable for both the novice and the experienced researcher in the field. The book covers theoretical and practical perspectives on network design. It includes how green ICT initiatives and applications can play a major role in reducing CO2 emissions, and focuses on industry and how it can promote awareness and implementation of Green ICT. The book discusses scholarship and research in green and sustainable IT for business and organizations and uses the power of IT to usher sustainability into other parts of an organization. Business and management educators, management researchers, doctoral scholars, university teaching personnel and policy makers as well as members of higher academic research organizations will all discover this book to be an indispensable guide to Green Information and Communication Systems. It will also serve as a key resource for Industrial and Management training organizations all over the world.

Oakes/Leone is an introduction to engineering text. Although introduction to engineering is not offered at all schools, we are seeing the course grow (22% up in last two years TWM Research) as students enter engineering schools and drop out in their second year because they are overwhelmed by the math and physics and have not received any engineering instruction at all. As such, this course and text strive to introduce students to the topics in

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engineering including descriptions of the various sub-fields, math fundamentals, ethics, technical communications, engineering design and studentsuccess skills. The market is segmented between a soft approach to engineering-leaving out math and physics altogether, and a more comprehensive approach to engineering including math and physics. Oakes Brief is for the former segment and Oakes Comprehensive is for the latter segment. The book is successful becauseit covers the basic course needs well.

"This is the ideal text for undergraduate students beginning their Engineering studies. It will engage the undergraduate engineering student directly with what it means to be a contemporary engineer in Australia and New Zealand. There is a strong and practical emphasis on developing the range of communication and decision-making skills that are essential for tackling engineering problems. Throughout the text and its accompanying exercises and problems, students are encouraged to reflect on and thereby improve their learning practices."--provided by publisher.

This overview of Australasian economic thought presents the first analysis of the Australian economic contribution for 25 years, and is the first to offer a panoramic sweeping account of New Zealand economic thought. Those two countries, both at the start of the twentieth century and at its end, excelled at innovative economic practices and harbouring unique economic institutions. A History of Australasian Economic Thought explains how Australian and New Zealand economists exerted influence on economic thought and contributed to the economic life of their respective countries in the twentieth century. Besides surveying theorists and innovators, this book also considers some of the key expositors and builders of the academic economics profession in both countries. The book covers key economic events including the

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Great Depression, the Second World War, the post-war boom and the great inflation that overtook it and, lastly, the economic reform programmes that both Australia and New Zealand undertook in the 1980s. Through the interplay of economic events and economic thought, this book shows how Australasian economists influenced, to differing degrees, economic policy in their respective countries. This book is of great importance to those who are interested in and study the history of economic thought, economic theory and philosophy, and philosophy of social science, as well as Australasian economics.

Mobile Security and Privacy: Advances, Challenges and Future Research Directions provides the first truly holistic view of leading edge mobile security research from Dr. Man Ho Au and Dr. Raymond Choo—leading researchers in mobile security. Mobile devices and apps have become part of everyday life in both developed and developing countries. As with most evolving technologies, mobile devices and mobile apps can be used for criminal exploitation. Along with the increased use of mobile devices and apps to access and store sensitive, personally identifiable information (PII) has come an increasing need for the community to have a better understanding of the associated security and privacy risks. Drawing upon the expertise of world-renowned researchers and experts, this volume comprehensively discusses a range of mobile security and privacy topics from research, applied, and international perspectives, while aligning technical security implementations with the most recent developments in government, legal, and international environments. The book does not focus on vendor-specific solutions, instead providing a complete presentation of forward-looking research in all areas of mobile security. The book will enable practitioners to learn about upcoming trends, scientists to share new directions in research, and government and industry

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decision-makers to prepare for major strategic decisions regarding implementation of mobile technology security and privacy. In addition to the state-of-the-art research advances, this book also discusses prospective future research topics and open challenges. Presents the most current and leading edge research on mobile security and privacy, featuring a panel of top experts in the field Provides a strategic and international overview of the security issues surrounding mobile technologies Covers key technical topics and provides readers with a complete understanding of the most current research findings along with future research directions and challenges Enables practitioners to learn about upcoming trends, scientists to share new directions in research, and government and industry decision-makers to prepare for major strategic decisions regarding the implementation of mobile technology security and privacy initiatives

Dowling's Engineering Your Future: An Australasian Guide, Fourth Edition is used for first year, core subjects across all Engineering disciplines. Building on the previous editions, this text has been updated with new references, while still maintaining a strong and practical emphasis on skills that are essential for problem solving and design. Numerous topical and locally focused examples of projects across engineering disciplines help demonstrate the role and responsibilities of a professional engineer. Themes of sustainability, ethical practice and effective communication are a constant throughout the text. This full-coloured print with interactive e-text resource has a variety of digital media embedded at the point of learning such as videos and knowledge-check questions to engage students and to help consolidate their learning.

Now in dynamic full color, SI ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO

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ENGINEERING, 5e helps students develop the strong problem-solving skills and solid foundation in fundamental principles they will need to become analytical, detail-oriented, and creative engineers. The book opens with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to succeed. It then covers the basic physical concepts and laws that students will encounter on the job. Professional Profiles throughout the text highlight the work of practicing engineers from around the globe, tying in the fundamental principles and applying them to professional engineering. Using a flexible, modular format, the book demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Advances in Calcium Phosphate Biomaterials presents a comprehensive, state-of-the-art review of the latest advances in developing calcium phosphate biomaterials and their applications in medicine. It covers the fundamental structures, synthesis methods, characterization methods, and the physical and chemical properties of calcium phosphate biomaterials, as well as the synthesis and properties of calcium phosphate-based biomaterials in regenerative medicine and their clinical applications. The book brings together these new concepts, mechanisms and methods in contributions by both young and “veteran” academics, clinicians, and researchers to forward the knowledge and expertise on calcium phosphate and related materials. Accordingly, the book not only covers the fundamentals but also open new avenues for meeting future challenges in research and clinical applications. Besim Ben-Nissan

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is a Professor of Chemistry and Forensic Science at the University of Technology, Sydney, Australia

Major buildings, energy supply systems, chemical plants, food processing, and aircraft are all examples of engineering today. Despite such diversity, nearly all engineering fields rely on common principles and methods, and there is remarkable similarity in the daily work of engineers. Engineers spend most effort organising and coordinating collaborative work by all the diverse people involved, guided by their technical knowledge and experience. Unlike physics or biology, where immutable laws underpin the study, the essence of engineering is found in how theory is applied judgementally. To quickly grasp the nature of engineering the fifty summaries in 30-Second Engineering outlines types of engineering from mechanical to chemical; the universal stages of a collaborative engineering project; and the key ways engineering can solve the challenges of our future earth.

Actors and Audiences explores the exchanges between those on and off the stage that fill the atmosphere with energy and vitality. Caroline Heim utilises the concept of "electric air" to describe this phenomenon and discuss the charge of emotional electricity that heightens the audience's senses in the theatre. In order to understand this electric air, Heim draws from in-depth interviews with 79

professional audience members and 22 international stage and screen actors in the United Kingdom, United States, France and Germany. Tapping into the growing interest in empirical studies of the audience, this book documents experiences from three productions – *The Encounter*, *Heisenberg* and *Hunger*. Peer Gynt – to describe the nature of these conversations. The interviews disclose essential elements: transference, identification, projection, double consciousness, presence, stage fright and the suspension of disbelief. Ultimately Heim reveals that the heart of theatre is the relationship between those on- and off-stage, the way in which emotions and words create psychological conversations that pass through the fourth wall into an "in-between space," and the resulting electric air. A fascinating introduction to a unique subject, this book provides a close examination of actor and audience perspectives, which is essential reading for students and academics of Theatre, Performance and Audience Studies.

‘The Right Thing to Read’: A History of Australian Girl-Readers, 1910-1960 explores the reading habits, identity, and construction of femininity of Australian girls aged between ten and fourteen from 1910 to 1960. It investigates changing notions of Australian girlhood across the period, and explores the ways that parents, teachers, educators, journalists and politicians attempted to mitigate

concerns about girls' development through the promotion of 'healthy' literature. The book also addresses the influence of British publishers to Australian girl-readers and the growing importance of Australian publishers throughout the period. It considers the rise of Australian literary nationalism in the global context, and the increasing prominence of Australian literature in the period after the Second World War. It also shows how access to reading material improved for girls over the first half of the last century.

The book derives the mathematical basis for the most encountered waves in science and engineering. It gives the basis to undertake calculations required for important occupations such as maritime engineering, climate science, urban noise control, and medical diagnostics. The book initiates with fluid dynamics basis with subsequent chapters covering surface gravity waves, sound waves, internal gravity waves and waves in rotating fluids, and details basic phenomena such as refraction. Thereafter, specialized application chapters include description of specific contemporary problems. All concepts are supported by narrative examples, illustrations, and case studies. Features:- Explains the basis of wave mechanics in fluid systems. Provides tools for the analysis of water waves, sound waves, internal gravity, and rotating fluid waves through different examples. Includes comprehensible mathematical derivations at the expense of

fewer theoretical topics. Reviews cases describable by linear theory and cases requiring nonlinear and wave-interaction theories. Supports concepts with narrative examples, illustrations, and case studies. This book aims at Senior Undergraduates/Graduate students and Researchers in Fluid Mechanics, Applied Mathematics, Mechanical Engineering, Civil Engineering, and Physical Oceanography.

The Chinese have, since ancient times, professed a non-litigious outlook. Similarly, their preference for mediation has fascinated the West for centuries. Mediation has been popularized by the Chinese who subscribe to the Confucian notions of harmony and compromise. It has been perpetuated in the People's Republic of China and by the overseas Chinese communities elsewhere, such as in Malaysia and Taiwan. Seen as the chief contributing factor in their litigation-averse nature, as well as the reason behind the significant role given to traditional mediation, this compelling book traces the cultural tradition of the Chinese. It uses rural Chinese Malaysians as illustrative examples and offers new insights into the nature of mediation East and West. It is an important reference and essential resource for anyone keen to learn about traditional Chinese concepts of law, justice and dispute settlement. Equally, it makes a unique contribution to the existing ADR literature by undertaking a socio-legal

study on traditional Chinese mediation.

In this illustrated ecological history, acclaimed scientist and historian Flannery follows the environment of the islands through the age of dinosaurs to the age of mammals and the arrival of humans, to the European colonizers and industrial society. Penetrating, gripping, and provocative, this book combines natural history, anthropology, and ecology on an epic scale. Illustrations.

Student Attainment in Higher Education: Issues, controversies and debates is a timely exploration of student attainment in a rapidly changing higher education context and a rapidly changing world. The effects of neoliberalism and the commercialization of everyday life on education have been well documented, but with a focus on pedagogy, whilst student success is measured through grades, statistics and metrics. By exploring attainment in a broader context, this book provides a unique contribution to the critical literature on contemporary higher education. Within the themes of understanding attainment and challenging practice, the book sets out to explore student attainment as complex and multifaceted. It achieves this by looking at different conceptualizations of what attainment means and to whom; how attainment is shaped by different and often competing agendas and vested interests. The book highlights these wider issues, controversies and debates that underpin student attainment, whilst at the same

time engaging with strategic and local interventions, which set out to improve aspects of the higher education system and increase individual and social agency within it. Sharing a range of pedagogical approaches and interventions, some of the key topics include: addressing attainment gaps engaging mature learners nurturing the intellectual identity the impact of activity choices. Creating a dialogue amongst different audiences about national and international controversies and debates around the topic of student attainment, this contribution will be beneficial to teaching professionals, policymakers and strategists. As an edited collection with contextualisation in the wider research arena, the book has both national and international applicability and transferability.

A brief introduction to the field of engineering.

The development of complex cultural behaviour in our own species is perhaps the most significant research issue in modern archaeology. Until recently, it was believed that our capacity for language and art only developed after some of our ancestors reached Europe around 40,000 years ago. Archaeological discoveries in Africa now show that modern humans were practicing symbolic behaviours prior to their dispersal from that continent, and more recent discoveries in Indonesia and Australia are once again challenging ideas about human cultural development. Despite these significant discoveries and exciting potentials, there is a curious absence of published information about Asia-Pacific region, and consequently, global

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narratives of our most celebrated cognitive accomplishment — art — has consistently underrepresented the contribution of Southeast Asia, Australia, and the Pacific Islands. This volume provides the first outline of what this region has to offer to the world of art in archaeology. Readers undertaking tertiary archaeology courses interested in the art of the Asia-Pacific region or human behavioural evolution, along with anyone who is fascinated by the development of our modern ability to decorate ourselves and our world, should find this book a good addition to their library.

The Routledge History of the Second World War sums up the latest trends in the scholarship of that conflict, covering a range of major themes and issues. The book delivers a thematic analysis of the many ways in which study of the Second World War can take place, considering international, transnational, and global approaches, and serves as a major jumping off point for further research into the specific fields covered by each of the expert authors. It demonstrates the global and total nature of the Second World War, giving due coverage to the conflict in all major theatres and through the lens of the key combatants and neutrals, examines issues of race, gender, ideology, and society during the war, and functions as a textbook to educate students as to the trends that have taken place in how the conflict has been (and can be) interpreted in the modern world. Divided into twelve parts that cover central themes of the conflict, including theatres of war, leadership, societies, occupation, secrecy and legacies, it enables those with no memory of war to approach it with a view to comprehending what it was all about and places the history of this conflict into a context that is international, transnational, and institutional. This is a comprehensive and accessible reference volume for anyone interested in the most up to date scholarship on this major conflict.

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City and state governments around the world are struggling to achieve environmentally sustainable transport. Economic, technological, city and transport planning and human behaviour solutions are often hampered by ineffective implementation. So attention is now turning to institutional, governmental and political barriers. Approaches to these implementation problems assume that transport ownership can only be public (owned by state entities) or private (corporate or personal). Another option – largely unexplored to date – is communal ownership of transport. Community-Owned Transport proposes and develops the notion that communal ownership has a historical basis and provides unique opportunities for providing personal mobility. It looks at the historical roots of modern urban transport's failings as those of technological change and the associated governing of transport systems, particularly the role of public sector institutions. Community ownership is explored through the new 'sharing economy' developments – car sharing, ridesharing and bicycle share schemes – and older social innovations in ecovillages and communal living. Models and practices of community ownership of transport are provided and this study also discusses how community ownership might contribute to sustainable transport. Drawing widely on different disciplines and fields of scholarship, this book explores the conceptual and practical aspects of communal ownership of transport. It will be a valuable resource for those seeking innovative approaches to addressing the pressing problems of transport, including graduate and postgraduate students, as well as policymakers, practitioners and community groups.

This collection identifies the key tensions and conflicts being debated within the field of critical disability studies and provides both an outline of the field in its current form and offers manifestos for its future direction. Traversing a number of disciplines from science and

technology studies to maternal studies, the collection offers a transdisciplinary vision for the future of critical disability studies. Some common thematic concerns emerge across the book such as digital futures, the usefulness of anger, creativity, family as disability allies, intersectionality, ethics, eugenics, accessibility and interdisciplinarity. However, the contributors who write as either disabled people or allies do not proceed from a singular approach to disability, often reflecting different or even opposing positions on these issues. Containing contributions from established and new voices in disability studies outlining their own manifesto for the future of the field, this book will be of interest to all scholars and students working within the fields of disability studies, cultural studies, sociology, law, history and education. The concerns introduced here are further explored in its sister volume *Interdisciplinary approaches to disability: looking towards the future*.

This unique and up-to-date work surveys the use of mechatronics in rail vehicles, notably traction, braking, communications, data sharing, and control. The results include improved safety, comfort, and fuel efficiency. Mechatronic systems are a key element in modern rail vehicle design and operation. Starting with an overview of mechatronic theory, the book goes on to cover topics including modeling of mechanical and electrical systems for rail vehicles, open and closed loop control systems, sensors, actuators and microprocessors. Modern simulation techniques and examples are included throughout, and numerical experiments and developed models for railway application are presented and explained. Case studies are used, alongside practical examples, to ensure that the reader can apply mechatronic theory to real world conditions. These case studies include modeling of a hybrid locomotive and simplified models of railway vehicle lateral dynamics for suspension control studies. Rail Vehicle

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Mechatronics provides current and in-depth content for design engineers, operations managers, systems engineers and technical consultants world-wide, working with freight, passenger, and urban transit railway systems.

Engineering Your Future: An Australasian Guide, Third edition, is the ideal resource for undergraduate students beginning their engineering studies. Building on the success of the popular first and second editions, this new edition continues the strong and practical emphasis on skills that are essential for engineering problem solving and design. Numerous topical and locally focused examples of projects across the broad range of engineering disciplines help to demonstrate vividly the role and responsibilities of a professional engineer. Themes of sustainability, ethical practice and effective communication are a constant throughout the text. This edition extensively covers the concepts of sustainability, design, engineering economics and professional responsibility. In addition, its many exercises and project activities will encourage students to put key engineering principles and skills into practice.

Every once in awhile, there is a book with a message so timeless, so universal, that it transcends generations. The Unwritten Laws of Business is such a book. Originally published over 60 years ago as The Unwritten Laws of Engineering, it has sold over 100,000 copies, despite the fact that it has never been available before to general readers. Fully revised for business readers today, here are but a few of the gems you'll find in this little-known business classic: If you take care of your present job well, the future will take care of itself. The individual who says nothing is usually credited with having nothing to say. Whenever you are performing someone else's function, you are probably neglecting your own. Martyrdom only rarely makes heroes, and in the business world, such heroes and martyrs often find themselves

unemployed.

The latest research innovations and enhanced technologies have altered the discipline of materials science and engineering. As a direct result of these developments, new trends in Materials Science and Engineering (MSE) pedagogy have emerged that require attention. The Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education brings together innovative and current advances in the curriculum design and course content of MSE education programs. Focusing on the application of instructional strategies, pedagogical frameworks, and career preparation techniques, this book is an essential reference source for academicians, engineering practitioners, researchers, and industry professionals interested in emerging and future trends in MSE training and education. Unlike most books on this subject, Productive Safety Management, described in this book, integrates occupational health and safety, human resource management, environmental management, and engineering to provide a whole-business approach to effective safety management. The book helps companies to reduce and manage risk by providing, analysing and improving systems in place within the company. It also looks at how external factors can affect company decision making and provides a tool to make sure that a health and safety management system is strategically aligned, appropriately resourced, and that it maximises employee commitment. Chapters on human resource management explore cultural issues and explain how to gain commitment to company objectives. The book has been written for managers and supervisors working in hazardous industries, OHS practitioners, undergraduate and

postgraduate students.

This is a collection of peer-reviewed papers originally presented at the 19th Australasian Conference on the Mechanics of Structures and Materials by academics, researchers and practitioners largely from Australasia and the Asia-Pacific region. The topics under discussion include: composite structures and materials; computational mechanics; dynamic analysis of structures; earthquake engineering; fire engineering; geomechanics and foundation engineering; mechanics of materials; reinforced and prestressed concrete structures; shock and impact loading; steel structures; structural health monitoring and damage identification; structural mechanics; and timber engineering. It is a valuable reference for academics, researchers, and civil and mechanical engineers working in structural and material engineering and mechanics. This edition of the Think Like a series displays the wonderful world of engineers. This bundle of insights shows why no one can hold you responsible for the impact of gravity, what Gerrit Rietveld can teach you about going against the flow, that Donald Trump says more than you think, and how Netflix goes beyond binge-watching. This book is for anyone who wants to widen their perspective and broaden their horizons. How can a deep engagement with disability studies change our understanding of sociology, literary studies, gender studies, aesthetics, bioethics, social work, law, education, or history? *Interdisciplinary Approaches to Disability* (the companion volume to *Manifestos for the Future of Critical Disability Studies*) identifies both the practical

and theoretical implications of such an interdisciplinary dialogue and challenges people in disability studies as well as other disciplinary fields to critically reflect on their professional praxis in terms of theory, practice, and methods. Topics covered include interdisciplinary outlooks ranging from media studies, games studies, education, performance, history and curation through to theology and immunology. Perspectives are drawn from different regions from the European Union to the Global South with chapters that draw on a range of different national backgrounds. Our contributors who write as either disabled people or allies do not proceed from a singular approach to disability, often reflecting different or even opposing positions. The collection features contributions from both established and new voices in international disability studies outlining their own visions for the future of the field. *Interdisciplinary Approaches to Disability* will be of interest to all scholars and students working within the fields of disability studies, cultural studies, sociology, law history and education. The concerns raised here are further in *Manifestos for the Future of Critical Disability Studies*. Over the past decade, Cognitive Work Analysis (CWA) has been one of the popular human factors approaches for complex systems evaluation and design applications. This is reflected by a diverse range of applications across safety critical domains. The book brings together a series of CWA applications and discussions from world-leading human factors researchers and practitioners. It begins with an overview of the CWA framework, including its theoretical underpinnings, the methodological approaches

involved (including practical guidance on each phase), and previous applications of the framework. The core of the book is a series of CWA applications, undertaken in a wide range of safety critical domains for a range of purposes. These serve to demonstrate the contribution that CWA can make to real-world projects and provide readers with inspiration for how such analyses can be practically carried out. Following this, a series of applications in which new approaches or adaptations have been added to the framework are presented. These show how practical applications feedback into the theories/approaches underpinning CWA. The closing chapter then speculates on future applications of the framework and on a series of new research directions required in order to enhance its utility. In emphasising the practical realities of performing CWA, and the real-world impacts it can provide, the book tackles several common misconceptions in a constructive and persuasive way. It provides a welcome demonstration of how CWA can be a powerful ally in tackling complexity-related problems that afflict systems in all areas.

Online genetic testing services are increasingly being offered to consumers who are becoming exposed to, and knowledgeable about, new kinds of genetic technologies, as the launch of a 23andme genetic testing product in the UK testifies. Genetic research breakthroughs, cheek swabbing forensic pathologists and celebrities discovering their ancestral roots are littered throughout the North American, European and Australasian media landscapes. Genetic testing is now capturing the attention, and imagination, of

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hundreds of thousands of people who can not only buy genetic tests online, but can also go online to find relatives, share their results with strangers, sign up for personal DNA-based musical scores, and take part in research. This book critically examines this market of direct-to-consumer (DTC) genetic testing from a social science perspective, asking, what happens when genetics goes online? With a focus on genetic testing for disease, the book is about the new social arrangements which emerge when a traditionally clinical practice (genetic testing) is taken into new spaces (the internet). It examines the intersections of new genetics and new media by drawing from three different fields: internet studies; the sociology of health; and science and technology studies. While there has been a surge of research activity concerning DTC genetic testing, particularly in sociology, ethics and law, this is the first scholarly monograph on the topic, and the first book which brings together the social study of genetics and the social study of digital technologies. This book thus not only offers a new overview of this field, but also offers a unique contribution by attending to the digital, and by drawing upon empirical examples from our own research of DTC genetic testing websites (using online methods) and in-depth interviews in the United Kingdom with people using healthcare services.

In the almost sixty years since the publication of the first edition of HVAC Engineer's Handbook, it has become widely known as a highly useful and definitive reference for HVAC engineers and technicians alike, and those working on domestic hot and cold

water services, gas supply and steam services. The 11th edition continues in the tradition of previous editions, being easily transportable and therefore an integral part of the HVAC engineer or technician's daily tools. Newly updated data on natural ventilation, ventilation rates, free cooling and night-time cooling, make the 11th edition of the HVAC Engineer's Handbook a vital source of information. Fred Porges has worked in both the manufacturing and process industries, and became a partner in a building services consultancy in 1962. He has held senior positions with design contractors, and his experience covers every building service and type of building from schools to housing, factories to laboratories.

This book equips readers with the knowledge, insights and key capabilities to understand and practice business activities from ethical and sustainable vantage points. In our interconnected global business environment, the impacts of business activities are under increased ethical scrutiny from a wide range of stakeholders. Written from an international perspective, this book introduces the theory and practice of ethical and sustainable business, focusing in particular on eco-environmental sustainability, intergenerational responsibilities, current disruptive technologies, and intercultural values of the business community and consumers. Written by an expert author who also brings to the fore non-Western concepts and themes, this book: features positive case studies, as well as transferrable and applicable key insights from such cases; highlights the importance of taking cultural differences into account; takes

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a transdisciplinary approach which considers findings from research fields including conceptual and empirical business ethics, behavioral economics, ecological economics, environmental ethics, and the philosophy of culture; weaves in pedagogical features throughout, including up-to-date case studies, study questions, thought experiments, links to popular movies, and key takeaways. Written in an accessible and student-friendly manner, this book will be of great interest to students of business ethics, environmental ethics, applied ethics, and sustainable development, as well as business practitioners striving toward ethical, sustainable, and responsible business practice. Following the national engineering curriculum, this title contains competency-based training requirements and Australian standards.

Advances in Science and Technology of $Mn+1AX_n$ Phases presents a comprehensive review of synthesis, microstructures, properties, ab-initio calculations and applications of $Mn+1AX_n$ phases and targets the continuing research of advanced materials and ceramics. An overview of the current status, future directions, challenges and opportunities of $Mn+1AX_n$ phases that exhibit some of the best attributes of metals and ceramics is included. Students of materials science and engineering at postgraduate level will value this book as a reference source at an international level for both teaching and research in materials science and engineering. In addition to students the principal audiences of this book are ceramic researchers, materials scientists and engineers, materials physicists and chemists. The book is also an invaluable reference for the professional materials and ceramics societies. The most up-to-date and comprehensive research data on MAX phases is presented Written by highly knowledgeable

and well-respected researchers in the field Discusses new and unusual properties Disaster health is an emerging field that focuses on developing prevention, preparation, response and recovery systems for dealing with health problems that result from a disaster. As disasters worldwide differ in their nature, scope and cultural context, a thorough understanding of the fundamental tenets of sound disaster health management is essential for both students and practitioners to participate confidently and effectively in the field. Disaster Health Management is the first comprehensive textbook to provide a standard guide to terminology and management systems across the entire spectrum of disaster health. Authored by experienced educators, researchers and practitioners in disaster health management, this textbook provides an authoritative overview of: The conceptual basis for disaster management Systems and structures for disaster management Managing disasters through the continuum of preparedness, response and recovery The variations associated with both natural and technological disasters The strategic considerations associated with leadership, research, education and future directions. Using Australasian systems and structures as examples of generic principles which will find application globally, Disaster Health Management is an essential text for both undergraduate and postgraduate students, as well as for professionals involved in all aspects of disaster management.

This open access book examines how the social sciences can be integrated into the praxis of engineering and science, presenting unique perspectives on the interplay between engineering and social science. Motivated by the report by the Commission on Humanities and Social Sciences of the American Association of Arts and Sciences, which emphasizes the importance of social sciences and Humanities in technical fields, the essays and papers collected in this

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book were presented at the NSF-funded workshop 'Engineering a Better Future: Interplay between Engineering, Social Sciences and Innovation', which brought together a singular collection of people, topics and disciplines. The book is split into three parts: A. Meeting at the Middle: Challenges to educating at the boundaries covers experiments in combining engineering education and the social sciences; B. Engineers Shaping Human Affairs: Investigating the interaction between social sciences and engineering, including the cult of innovation, politics of engineering, engineering design and future of societies; and C. Engineering the Engineers: Investigates thinking about design with papers on the art and science of science and engineering practice.

The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. *Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications* is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and extensive coverage on a variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering.

This is the first book to introduce the new statistics - effect sizes, confidence intervals, and meta-analysis - in an accessible way. It is chock full of practical examples and tips on how to analyze and report research results using these techniques. The book is invaluable to readers

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interested in meeting the new APA Publication Manual guidelines by adopting the new statistics - which are more informative than null hypothesis significance testing, and becoming widely used in many disciplines. Accompanying the book is the Exploratory Software for Confidence Intervals (ESCI) package, free software that runs under Excel and is accessible at www.thenewstatistics.com. The book's exercises use ESCI's simulations, which are highly visual and interactive, to engage users and encourage exploration. Working with the simulations strengthens understanding of key statistical ideas. There are also many examples, and detailed guidance to show readers how to analyze their own data using the new statistics, and practical strategies for interpreting the results. A particular strength of the book is its explanation of meta-analysis, using simple diagrams and examples. Understanding meta-analysis is increasingly important, even at undergraduate levels, because medicine, psychology and many other disciplines now use meta-analysis to assemble the evidence needed for evidence-based practice. The book's pedagogical program, built on cognitive science principles, reinforces learning: Boxes provide "evidence-based" advice on the most effective statistical techniques. Numerous examples reinforce learning, and show that many disciplines are using the new statistics. Graphs are tied in with ESCI to make important concepts vividly clear and memorable. Opening overviews and end of chapter take-home messages summarize key points. Exercises encourage exploration, deep understanding, and practical applications. This highly accessible book is intended as the core text for any course that emphasizes the new statistics, or as a supplementary text for graduate and/or advanced undergraduate courses in statistics and research methods in departments of psychology, education, human development , nursing, and natural, social, and life sciences. Researchers

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and practitioners interested in understanding the new statistics, and future published research, will also appreciate this book. A basic familiarity with introductory statistics is assumed.

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