

Oxford English For Careers Engineering 1 Students Book

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A Dictionary of Mechanical Engineering

A Dictionary of Mechanical Engineering is one of the latest additions to the market leading Oxford Paperback Reference series. In over 8,500 clear and concise A to Z entries, it provides definitions and explanations for mechanical engineering terms in the core areas of design, stress analysis, dynamics and vibrations, thermodynamics, and fluid mechanics. Topics covered include heat transfer, combustion, control, lubrication, robotics, instrumentation, and measurement. Where relevant, the dictionary also touches on related subject areas such as acoustics, bioengineering, chemical engineering, civil engineering, aeronautical engineering, environmental engineering, and materials science. Useful entry-level web links are listed and regularly updated on a dedicated companion website to expand the coverage of the dictionary. Cross-referenced and including many line drawings, this excellent new volume is the most comprehensive and authoritative dictionary of its kind. It is an essential reference for students of mechanical engineering and for anyone with an interest in the subject.

Plasma Engineering

John Roebling was one of the nineteenth century's most brilliant engineers, ingenious inventors, successful manufacturers, and fascinating personalities. Raised in a German backwater amid the war-torn chaos of the Napoleonic Wars, he immigrated to the US in 1831, where he became wealthy and acclaimed, eventually receiving a carte-blanche contract to build one of the nineteenth century's most stupendous and daring works of engineering: a gigantic suspension bridge to span the East River between New York and Brooklyn. In between, he thought, wrote, and worked tirelessly. He dug canals and surveyed railroads; he

planned communities and founded new industries. Horace Greeley called him "a model immigrant"; generations later, F. Scott Fitzgerald worked on a script for the movie version of his life. Like his finest creations, Roebling was held together by the delicate balance of countervailing forces. On the surface, his life was exemplary and his accomplishments legion. As an immigrant and employer, he was respected throughout the world. As an engineer, his works profoundly altered the physical landscape of America. He was a voracious reader, a fervent abolitionist, and an engaged social commentator. His understanding of the natural world, however, bordered on the occult and his opinions about medicine are best described as medieval. For a man of science and great self-certainty, he was also remarkably quick to seize on a whole host of fads and foolish trends. Yet Roebling held these strands together. Throughout his life, he believed in the moral application of science and technology, that bridges--along with other great works of connection, the Atlantic Cable, the Transcontinental Railroad--could help bring people together, erase divisions, and heal wounds. Like Walt Whitman, Roebling was deeply committed to the creation of a more perfect union, forged from the raw materials of the continent. John Roebling was a complex, deeply divided yet undoubtedly influential figure, and this biography illuminates not only his works but also the world of nineteenth-century America. Roebling's engineering feats are well known, but the man himself is not; for alongside the drama of large scale construction lies an equally rich drama of intellectual and social development and crisis, one that mirrored and reflected the great forces, trials, and failures of nineteenth century America.

Technical Communication

Helps students to combine their knowledge of English with their technical knowledge. Develops all four skills through varied activities, with special emphasis on vocabulary acquisition and grammatical accuracy. Up-to-date technical content. Authentic reading and listening passages covering a wide range of topics, e.g. the use of virtual reality in industry, personal computing, viruses and security, information systems, and multimedia. Letter-writing section offering a complete guide to writing simple, work-related letters. Comprehensive glossary of technical terms which forms a useful mini-dictionary of computing terminology. Separate Answer Book with a key to all exercises, the tapescripts, and useful unit-by-unit teaching notes. Designed for easy use by the non-specialist teacher.

Clinical Engineering Handbook

A Dictionary of Chemical Engineering is one of the latest additions to the market leading Oxford Paperback Reference series. In over 3,400 concise and authoritative A to Z entries, it provides definitions and explanations for chemical engineering terms in areas including: materials, energy balances, reactions, separations, sustainability, safety, and ethics. Naturally, the dictionary also covers many pertinent terms from the fields of chemistry, physics, biology, and mathematics. Useful entry-level web links are listed and regularly updated on a dedicated companion website to expand the coverage of the dictionary. Comprehensively cross-referenced and complemented by over 60 line drawings, this excellent new volume is the most authoritative dictionary of its kind. It is an essential reference source for students of chemical engineering, for professionals in this field (as well

as related disciplines such as applied chemistry, chemical technology, and process engineering), and for anyone with an interest in the subject.

Medicine

A new up-to-date course where students learn the English they need for a career in commerce, tourism, nursing, or technology. Oxford English for Careers is a series which prepares pre-work students for starting their career. Everything in each Student's Book is vocation-specific, which means students get the language, information, and skills they need to help them get a job in their chosen career. The complete series will cover Commerce, Tourism, Nursing, and Technology at Pre-Intermediate and Intermediate levels.

Finance 1

Clinical Engineering Handbook, Second Edition, covers modern clinical engineering topics, giving experienced professionals the necessary skills and knowledge for this fast-evolving field. Featuring insights from leading international experts, this book presents traditional practices, such as healthcare technology management, medical device service, and technology application. In addition, readers will find valuable information on the newest research and groundbreaking developments in clinical engineering, such as health technology assessment, disaster preparedness, decision support systems, mobile medicine, and prospects and guidelines on the future of clinical engineering. As the biomedical engineering field expands throughout the world, clinical engineers play an increasingly important role as translators between the medical, engineering and business professions. In addition, they influence procedures and policies at research facilities, universities, and in private and government agencies. This book explores their current and continuing reach and its importance. Presents a definitive, comprehensive, and up-to-date resource on clinical engineering. Written by worldwide experts with ties to IFMBE, IUPESM, Global CE Advisory Board, IEEE, ACCE, and more. Includes coverage of new topics, such as Health Technology Assessment (HTA), Decision Support Systems (DSS), Mobile Apps, Success Stories in Clinical Engineering, and Human Factors Engineering.

Hotel Engineering

"Major changes have occurred in the workplace during the last several decades that have transformed the nature of work, and our preparation for work. In recent years, we have seen the globalization of thousands of companies and most industries, organizational downsizing and restructuring, greater use of information technology at work, changes in work contracts, and the growth of various alternative education and work strategies and schedules"--

Conceptual Engineering and Conceptual Ethics

We have long recognized technology as a driving force behind much historical and cultural change. The invention of the printing press initiated the Reformation. The development of the compass ushered in the Age of Exploration and the discovery

of the New World. The cotton gin created the conditions that led to the Civil War. Now, in *Beyond Engineering*, science writer Robert Pool turns the question around to examine how society shapes technology. Drawing on such disparate fields as history, economics, risk analysis, management science, sociology, and psychology, Pool illuminates the complex, often fascinating interplay between machines and society, in a book that will revolutionize how we think about technology. We tend to think that reason guides technological development, that engineering expertise alone determines the final form an invention takes. But if you look closely enough at the history of any invention, says Pool, you will find that factors unrelated to engineering seem to have an almost equal impact. In his wide-ranging volume, he traces developments in nuclear energy, automobiles, light bulbs, commercial electricity, and personal computers, to reveal that the ultimate shape of a technology often has as much to do with outside and unforeseen forces. For instance, Pool explores the reasons why steam-powered cars lost out to internal combustion engines. He shows that the Stanley Steamer was in many ways superior to the Model T--it set a land speed record in 1906 of more than 127 miles per hour, it had no transmission (and no transmission headaches), and it was simpler (one Stanley engine had only twenty-two moving parts) and quieter than a gas engine--but the steamers were killed off by factors that had little or nothing to do with their engineering merits, including the Stanley twins' lack of business acumen and an outbreak of hoof-and-mouth disease. Pool illuminates other aspects of technology as well. He traces how seemingly minor decisions made early along the path of development can have profound consequences further down the road, and perhaps most important, he argues that with the increasing complexity of our technological advances--from nuclear reactors to genetic engineering--the number of things that can go wrong multiplies, making it increasingly difficult to engineer risk out of the equation. Citing such catastrophes as Bhopal, Three Mile Island, the Exxon Valdez, the Challenger, and Chernobyl, he argues that it is time to rethink our approach to technology. The days are gone when machines were solely a product of larger-than-life inventors and hard-working engineers. Increasingly, technology will be a joint effort, with its design shaped not only by engineers and executives but also psychologists, political scientists, management theorists, risk specialists, regulators and courts, and the general public. Whether discussing bovine growth hormone, molten-salt reactors, or baboon-to-human transplants, *Beyond Engineering* is an engaging look at modern technology and an illuminating account of how technology and the modern world shape each other.

Technology 1

A new, up-to-date course where students learn the English they need for a career in commerce, tourism, nursing, medicine, or technology. Oxford English for Careers is a series which prepares pre-work students for starting their career. Everything in each Student Book is vocation specific, which means students get the language, information, and skills they need to help them get a job in their chosen career.

Tourism 1

Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and

process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and storage of fluids.

Beyond Engineering

Authentic and up-to date information in every course, written and checked by industry insiders Clear and straightforward structure, with each unit containing a menu of learning outcomes, and an end-of-unit checklist with 'Can do' tick boxes Teaches English in context, so students practise the language and skills they need for the job in real work situations Real-world profiles from genuine professionals in the 'It's my job' section offer authentic and engaging insights into the industry Extra facts, figures, quotations, and specialist terminology included in the top margin of unit pages Additional activities and tests in the Teacher's Resource Book make the course suitable for mixed-ability classes The Teacher's Resource Book provides specialist background to the industry for every unit, as well as industry tips to support non-expert teachers Project work in the Student's Book, additional activities on the Student's Site, and a Key words list of essential vocabulary at the end of every unit provide extra opportunities for revision

Advanced Materials Science and Engineering of Carbon

The text material has been restructured to provide a more balanced and exhaustive coverage of the subject. The text discusses the core concepts of technical communication and explains them with the help of numerous examples and practice exercises. The book also provides support for soft skills laboratory sessions through a companion CD. With its in-depth coverage and practical orientation, the book is useful not only for students, but also as a reference material for corporate training programmes.

A Dictionary of Construction, Surveying, and Civil Engineering

This new edition of A Dictionary of Construction, Surveying, and Civil Engineering is the most up-to-date dictionary of its kind. In more than 8,000 entries it covers the key areas of civil and construction engineering, construction technology and practice, construction management techniques and processes, as well as legal aspects such as contracts and procurement. It has been updated with more than 600 new entries spanning subjects such as sustainability, new technologies, disaster management, and building software. New additions include terms such as Air source heat pump, hydraulic failure, mechanical ventilation with heat recovery, off-site construction, predictive performance, sustainable development, and value engineering. Useful diagrams and web links complement the text, which also includes suggestions for further reading. With contributions from more than 130 experts from around the world, this dictionary is an authoritative resource for

engineering students, construction professionals, and surveyors.

Tourism

A new, up-to-date course where students learn what they need to know for a career in commerce, tourism, nursing, or technology.

Oxford English for Careers Technology for Engineering and Applied Sciences: Student Book

Oxford English for careers is a new, up-to-date course where you learn what you need to know for a career in commerce.

Commerce

Herman Cappelen investigates ways in which language (and other representational devices) can be defective, and how they can be improved. In all parts of philosophy there are philosophers who criticize the concepts we have and propose ways to improve them. Once one notices this about philosophy, it's easy to see that revisionist projects occur in a range of other intellectual disciplines and in ordinary life. That fact gives rise to a cluster of questions: How does the process of conceptual amelioration work? What are the limits of revision? (How much revision is too much?) How does the process of revision fit into an overall theory of language and communication? Fixing Language aims to answer those questions. In so doing, it aims also to draw attention to a tradition in 20th- and 21st-century philosophy that isn't sufficiently recognized. There's a straight intellectual line from Frege and Carnap to a cluster of contemporary work that isn't typically seen as closely related: much work on gender and race, revisionism about truth, revisionism about moral language, and revisionism in metaphysics and philosophy of mind. These views all have common core commitments: revision is both possible and important. They also face common challenges about the methods, assumptions, and limits of revision.

Music Engineering

A new, up-to-date course where students learn what they need to know for a career in commerce, tourism, nursing, or technology.

Mechanical Engineer's Reference Book

A serious-minded but easy-to-use course for IT students.

Career Pathways

Encyclopedia of Biomedical Engineering is a unique source for rapidly evolving updates on topics that are at the interface of the biological sciences and engineering. Biomaterials, biomedical devices and techniques play a significant role in improving the quality of health care in the developed world. The book covers an extensive range of topics related to biomedical engineering, including

biomaterials, sensors, medical devices, imaging modalities and imaging processing. In addition, applications of biomedical engineering, advances in cardiology, drug delivery, gene therapy, orthopedics, ophthalmology, sensing and tissue engineering are explored. This important reference work serves many groups working at the interface of the biological sciences and engineering, including engineering students, biological science students, clinicians, and industrial researchers. Provides students with a concise description of the technologies at the interface of the biological sciences and engineering Covers all aspects of biomedical engineering, also incorporating perspectives from experts working within the domains of biomedicine, medical engineering, biology, chemistry, physics, electrical engineering, and more Contains reputable, multidisciplinary content from domain experts Presents a 'one-stop' resource for access to information written by world-leading scholars in the field

Oxford English for Information Technology

Oxford English for careers is a new, up-to-date course where you learn what you need to know for a career in commerce.

Membrane Technology and Engineering for Water Purification

A new, up-to-date course where students learn the English they need for a career in commerce, tourism, nursing, medicine, or technology. Oxford English for Careers is a series which prepares pre-work students for starting their career. Everything in each Student Book is vocation specific, which means students get the language, information, and skills they need to help them get a job in their chosen career.

Engineering America

A pre-intermediate course for students studying for a career in the oil and gas industries, who will need English to communicate at work. A new, up-to-date course where students learn the English they need for a career in commerce, tourism, nursing, medicine, or technology. Oxford English for Careers is a series which prepares pre-work students for starting their career. Everything in each Student Book is vocation specific, which means students get the language, information, and skills they need to help them get a job in their chosen career.

Fixing Language

Plasma Engineering, Second Edition, applies the unique properties of plasmas (ionized gases) to improve processes and performance over many fields, such as materials processing, spacecraft propulsion and nanofabrication. The book considers this rapidly expanding discipline from a unified standpoint, addressing fundamentals of physics and modeling, as well as new and real-world applications in aerospace, nanotechnology and bioengineering. This updated edition covers the fundamentals of plasma physics at a level suitable for students using application examples and contains the widest variety of applications of any text on the market, spanning the areas of aerospace engineering, nanotechnology and nanobioengineering. This is highly useful for courses on plasma engineering or

plasma physics in departments of Aerospace Engineering, Electrical Engineering and Physics. It is also useful as an introduction to plasma engineering and its applications for early career researchers and practicing engineers. Features new material relevant to application, including emerging areas of plasma nanotechnology and medicine Contains a new chapter on plasma-based control, as well as a description of RF and microwave-based plasma applications, plasma lighting, reforming and other most recent application areas Provides a technical treatment of the fundamental and engineering principles used in plasma applications

Encyclopedia of Biomedical Engineering

Membrane Technology and Engineering for Water Purification, Second Edition is written in a practical style with emphasis on: process description; key unit operations; systems design and costs; plant equipment description; equipment installation; safety and maintenance; process control; plant start-up; and operation and troubleshooting. It is supplemented by case studies and engineering rules-of-thumb. The author is a chemical engineer with extensive experience in the field, and his technical knowledge and practical know-how in the water purification industry are summarized succinctly in this new edition. This book will inform you which membranes to use in water purification and why, where and when to use them. It will help you to troubleshoot and improve performance and provides case studies to assist understanding through real-life examples. Membrane Technology section updated to include forward osmosis, electrodialysis, and diffusion dialysis Hybrid Membrane Systems expanded to cover zero liquid discharge, salt recovery and removal of trace contaminants Includes a new section on plant design, energy, and economics

Oxford English for Careers: Tourism 3: Student's Book

A new, up-to-date course where students learn what they need to know for a career in commerce, tourism, nursing, or technology.

Oil and Gas, Level 2

The Oxford English for Careers series is ideal for pre-work students, who will need to use English in work situations. Each book teaches English in context, so students practise the language and skills they need for the job in real work situations. The series supports teachers in vocational teaching situations, providing

Oxford English: an International Approach Evaluation Pack Ages 14-16

A pre-intermediate course for students studying for a career in the oil and gas industries, who will need English to communicate at work. A new, up-to-date course where students learn the English they need for a career in commerce, tourism, nursing, medicine, or technology. Oxford English for Careers is a series which prepares pre-work students for starting their career. Everything in each Student Book is vocation specific, which means students get the language,

information, and skills they need to help them get a job in their chosen career.

Nursing 1

The Oxford English for Careers series is ideal for pre-work students, who will need to use English in work situations. Each book teaches English in context, so students practise the language and skills they need for the job in real work situations. The series supports teachers in vocational teaching situations, providing them with specialist background information for each industry or profession.

The Apollo Chronicles

Authentic and up-to date information in every course, written and checked by industry insiders
Clear and straightforward structure, with each unit containing a menu of learning outcomes, and an end-of-unit checklist with 'Can do' tick boxes
Teaches English in context, so students practise the language and skills they need for the job in real work situations
Real-world profiles from genuine professionals in the 'It's my job' section offer authentic and engaging insights into the industry
Extra facts, figures, quotations, and specialist terminology included in the top margin of unit pages
Additional activities and tests in the Teacher's Resource Book make the course suitable for mixed-ability classes
The Teacher's Resource Book provides specialist background to the industry for every unit, as well as industry tips to support non-expert teachers
Project work in the Student's Book, additional activities on the Student's website, and a Key words list of essential vocabulary at the end of every unit provide extra opportunities for revision

A Dictionary of Chemical Engineering

Oxford English: An International Approach is a comprehensive course developed specifically for the international classroom. It supports the four language skills in a practical yet enquiry based framework. Suitable for both native speakers and higher level EAL students, it takes a thematic, cross-curricular approach which explores globally relevant themes and texts from around the world. This Evaluation Pack for 14-16 year olds will enable you to trial Part 4 in your classroom, and see how it will prepare your students to succeed

Oil and Gas, Level 2

Music Engineering is a hands-on guide to the practical aspects of electric and electronic music. It is both a compelling read and an essential reference guide for anyone using, choosing, designing or studying the technology of modern music. The technology and underpinning science are introduced through the real life demands of playing and recording, and illustrated with references to well known classic recordings to show how a particular effect is obtained thanks to the ingenuity of the engineer as well as the musician. Written by a music enthusiast and electronic engineer, this book covers the electronics and physics of the subject as well as the more subjective aspects. The second edition includes an updated Digital section including MPEG3 and fact sheets at the end of each chapter to summarise the key electronics and science. In addition to instruments and

recording technology, this book covers essential kit such as microphones, sequencers, amplifiers and loudspeakers. Discover the potential of electronics and computers to transform your performances and recordings Develop an understanding of the engineering behind state of the art instruments, amplifiers and recording equipment

English in the Disciplines

Hotel Engineering is a comprehensive textbook specially designed to meet the needs of students of hotel management. The book covers fundamentals of engineering in the hotel context. Written in a student-friendly style, this book focuses on concepts reinforced with suitable examples, exhibits, illustrations and case studies.

Oxford English for Computing

Oxford English for Careers is a new, up-to-date course where your students learn what they need to know For a career in technology. TECHNOLOGY1 Teacher s Resource Book helps you to teach technology - so you can prepare your students to work in technology. Background introductions give you the specialist knowledge you need to teach the unit with confidence. An integrated key gives you quick access to the answers. Handy tips give you easy-to-understand explanations and advice. Additional activities help you cope with the demands of mixedability groups. Unit-by-unit grammar tests and communication activities help you provide your students with extra practice and support. Online resources including Listening scripts, Glossary, and further help on how to teach technology: www.oup.com/elt/teacher/oefc.

The Oxford Handbook of Cognitive Engineering

The moon landing of 1969 stands as an iconic moment for both the United States and humankind. The familiar story focuses on the journey of the brave astronauts, who brought home Moon rocks and startling photographs. But Apollo's full account includes the earthbound engineers, mounds of their crumpled paper, and smoldering metal shards of exploded engines. How exactly did the nation, step by difficult step, take men to the Moon and back? In The Apollo Chronicles, fifty years after the moon landing, author Brandon R. Brown, himself the son of an Apollo engineer, revisits the men and women who toiled behind the lights. He relays the defining twentieth-century project from its roots, bringing the engineers' work and personalities to bright life on the page. Set against the backdrop of a turbulent American decade, the narrative whisks audiences through tense deadlines and technical miracles, from President John F. Kennedy's 1961 challenge to NASA's 1969 lunar triumph, as engineers confronted wave after wave of previously unthinkable challenges. Brown immerses readers in key physical hurdles--from building the world's most powerful rockets to keeping humans alive in the hostile void of space--using language free of acronyms and technical jargon. The book also pulls back from the detailed tasks and asks larger questions. What did we learn about the Moon? And what can this uniquely innovative project teach us today?

Oxford English for Careers: Nursing 2: Student's Book

Mechanical Engineer's Reference Book, 12th Edition is a 19-chapter text that covers the basic principles of mechanical engineering. The first chapters discuss the principles of mechanical engineering, electrical and electronics, microprocessors, instrumentation, and control. The succeeding chapters deal with the applications of computers and computer-integrated engineering systems; the design standards; and materials' properties and selection. Considerable chapters are devoted to other basic knowledge in mechanical engineering, including solid mechanics, tribology, power units and transmission, fuels and combustion, and alternative energy sources. The remaining chapters explore other engineering fields related to mechanical engineering, including nuclear, offshore, and plant engineering. These chapters also cover the topics of manufacturing methods, engineering mathematics, health and safety, and units of measurements. This book will be of great value to mechanical engineers.

Oxford English for Careers: Engineering 1: Student's Book

The revered New York Times bestselling author traces the development of technology from the Industrial Age to the Digital Age to explore the single component crucial to advancement—precision—in a superb history that is both an homage and a warning for our future. The rise of manufacturing could not have happened without an attention to precision. At the dawn of the Industrial Revolution in eighteenth-century England, standards of measurement were established, giving way to the development of machine tools—machines that make machines. Eventually, the application of precision tools and methods resulted in the creation and mass production of items from guns and glass to mirrors, lenses, and cameras—and eventually gave way to further breakthroughs, including gene splicing, microchips, and the Hadron Collider. Simon Winchester takes us back to origins of the Industrial Age, to England where he introduces the scientific minds that helped usher in modern production: John Wilkinson, Henry Maudslay, Joseph Bramah, Jesse Ramsden, and Joseph Whitworth. It was Thomas Jefferson who later exported their discoveries to the fledgling United States, setting the nation on its course to become a manufacturing titan. Winchester moves forward through time, to today's cutting-edge developments occurring around the world, from America to Western Europe to Asia. As he introduces the minds and methods that have changed the modern world, Winchester explores fundamental questions. Why is precision important? What are the different tools we use to measure it? Who has invented and perfected it? Has the pursuit of the ultra-precise in so many facets of human life blinded us to other things of equal value, such as an appreciation for the age-old traditions of craftsmanship, art, and high culture? Are we missing something that reflects the world as it is, rather than the world as we think we would wish it to be? And can the precise and the natural co-exist in society?

The Perfectionists

Conceptual engineering and conceptual ethics are branches of philosophy concerned with questions about how to assess and ameliorate our representational devices (such as concepts and words). It's a part of philosophy concerned with

questions about which concepts we should use (and why), how concepts can be improved, when concepts should be abandoned, and how proposals for amelioration can be implemented. Central parts of the history of philosophy have engaged with these issues, but the focus of this volume is on applications to work in contemporary philosophy of language and mind, epistemology, gender and race theory, ethics, philosophy of science, and philosophical logic. This is the first volume devoted entirely to conceptual engineering and conceptual ethics. The volume explores the possibilities, benefits, problems, and applications of conceptual engineering and conceptual ethics. It consists of twenty chapters written by leading philosophers.

Oxford English for Careers: Engineering 1: Teacher's Resource Book

Carbon materials are exceptionally diverse in their preparation, structure, texture, and applications. In *Advanced Materials Science and Engineering of Carbon*, noted carbon scientist Michio Inagaki and his coauthors cover the most recent advances in carbon materials, including new techniques and processes, carbon materials synthesis, and up-to-date descriptions of current carbon-based materials, trends and applications. Beginning with the synthesis and preparation of nanocarbons, carbon nanotubes, and graphenes, the book then reviews recently developed carbonization techniques, such as templating, electrospinning, foaming, stress graphitization, and the formation of glass-like carbon. The last third of the book is devoted to applications, featuring coverage of carbon materials for energy storage, electrochemical capacitors, lithium-ion rechargeable batteries, and adsorptive storage of hydrogen and methane for environmental protection, photocatalysis, spilled oil recovery, and nuclear applications of isotropic high-density graphite. A progression from synthesis through modern carbonization techniques to applications gives you a thorough understanding of carbon materials. Covers a wide range of precursor materials, preparation techniques, and characteristics to inspire your own development of carbonization techniques, carbon materials and applications. Applications-oriented chapters include timely content on hot topics such as the engineering of carbon nanofibers and carbon materials for various energy-related applications.

Chemical Engineering Design

This handbook is the first to provide comprehensive coverage of original state-of-the-science research, analysis, and design of integrated, human-technology systems.

Commerce 1

The context for the teaching and learning of English for specific disciplinary purposes is undergoing profound changes under the influence of economic globalization and new digital communication technologies. *English in the Disciplines* demonstrates how fundamental principles of ESP, to tailor language learning materials to the needs of specific groups of learners, can be adapted to new contexts of learning in the digital age. Based on sustained research into

students' experiences in an ESP context in Hong Kong, this volume provides an empirically grounded and practical methodology to ESP learning and course design and features:

- mixed-method case studies;
- links between theory and practice, with plentiful examples of teaching materials and learning activities;
- recognition of the effect of new technologies and globalization on the practice of ESP, highlighting problems and providing practical solutions;
- a new pedagogical model for ESP course design, addressing multiple dimensions relevant to today's ESP learners including learner autonomy, genre, multimodality and digital literacies, plurilingual practices, and project-based learning and collaboration.

English in the Disciplines provides key reading for anyone studying and researching this topic.

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#) [HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)