English for Specific Purposes offers the teacher a new perspective on this important field. The main concern is effective learning and how this can best be achieved in ESP courses. The authors discuss the evolution of ESP and its position today; the role of the ESP teacher; course design; syllabuses; materials; teaching methods, and evaluation procedures. It will be of interest to all teachers who are concerned with ESP. Those who are new to the field will find it a thorough, practical introduction while those with more extensive experience will find its approach both stimulating and innovative.

"This easy-to-use pocket book contains a wealth of up-to-date, useful, practical and hard-to-find information. With 160 matt laminated, greaseproof pages you'll enjoy glare-free reading and durability. Includes: data sheets, formulae, reference tables and equivalent charts. New content in the 3rd edition includes; Reamer and Drill Bit Types, Taper Pins, T-slot sizing, Counterboring/Sinking, Extended Angles Conversions for Cutting Tapers, Keyways and Keyseats, Woodruff Keys, Retaining Rings, O-Rings, Flange Sizing, Common Workshop Metals, Adhesives, GD&T, Graph and Design Paper included at the back of the book. Engineers Black Book contains a wealth of up-to-date, useful, information within over 160 matt laminated grease proof pages. It is ideal for engineers, trades people, apprentices, machine shops, tool rooms and technical colleges." -- publisher website.

Genre analysis has become a key approach within the field of English for Specific Purposes and helps students understand particular language use patterns in target contexts. Introducing Genre and English for Specific Purposes provides an overview of how genre has been conceptualized and applied in ESP, as well as the features that distinguish ESP genre research and teaching from those of other genre schools. The macro and micro aspects of ESP genre-based pedagogy are also analysed and include: different possibilities for planning and designing an ESP genre-based course; the concrete, micro aspects of materials creation; and how genres can be learned through play. Introducing Genre and English for Specific Purposes is essential reading for students and pre-service teachers who are studying Genre, English for Specific Purposes or language teaching methodologies.

Helping learners to learn: portfolios, self-assessment, and strategy instruction - The CEF in course design and in teacher education - Finding out what learners can do - Designing syllabus and materials.

The growing interest in the problems of integrated foreign language teaching and
professional disciplines is manifested in the formulation of new concepts and approaches, which at the moment are controversial. The lack of a common conceptual framework of integrated education in the system of higher professional education in different countries manifests itself in the attempts of researchers to either completely eliminate the achievements of their colleagues in this area or, without any scientific and practical justification, mechanically transfer foreign experiences in their conditions. Examining Content and Language Integrated Learning (CLIL) Theories and Practices is a cutting-edge research publication that investigates the different approaches and models of progressive technology within linguodidactics and the methodologies for teaching foreign languages. Highlighting a range of topics such as blended learning, cognition, and professional discourse, this book is essential for language teachers, linguists, curriculum developers, instructional designers, deans, researchers, practitioners, administrators, educators, academicians, and students.

Take-Off: Technical English for Engineering Teacher's Book Take-Off has been designed for non-native speakers of English who are studying Engineering (NVQ Level 2 and above. The aeronautical context is particularly aimed at technicians and engineers who are going on to work in the aeronautics industry. Take-Off is an ESP course for intermediate-level students. Unlike many ESP courses, it teaches genuine transferable skills and is ideal for students who need to further their technical training in English. The focus is on skills development, using relevant contexts, with grammar taking a strong supporting role. Reading and listening development is dealt with in the context of understanding instructions and information in technical manuals. Students develop the speaking skills of asking for and giving factual information, and the writing skills necessary to complete workplace documentation, such as accident reports and safety assessments. Take-Off uses a communicative methodology, with graded tasks that are careful scaffolded to involve and motivate the students, providing them with a clear sense of achievement. The wide variety of texts and task types will appeal to a broad range of ages and nationalities. There are also comprehensive word lists and a glossary of terms for student reference. A bank of tests are provided online. Please contact us if you have purchased the book and would like access to these tests. Key Features Practical skills developed for dealing with oral and written instructions and documentation Task-based approach ensures achievable lesson outcomes Variety of texts and tasks on a wide range of aeronautical topics Two review sections to consolidate skills and vocabulary knowledge Glossary and electrical appendix Audio CDs for further self-study and homework Accompanying Course Book, Workbook and Interactive Media Book also available.

An unusually multifaceted approach to American higher education that views institutions as complex organisms, Academia Next offers a fresh perspective on the emerging colleges and universities of today and tomorrow.

The book entitled ECEM (English for Civil Engineering Mastery) as mentioned earlier is a reading-based ESP course book in professional English for Civil Engineering students. The book is so designed that students could succeed in acquiring the technical terminology through reading ESP texts. So, the primary purpose of the book is not to teach Civil Engineering to the students, but help them improve reading technical passages and develop a reading habit in their field of study. The course book includes eighteen units from general to specific and simple to complex. Each unit has a primary warm-up part along with various reading and vocabulary activities. The warm-up part is specifically designed to enable students to have oral discussions and debates prior to reading the actual texts. Reading activities urges students to read the text and then answer the questions given. A comprehension practice follows each passage and demands a comprehensive study of the text. In this part, vocabulary practice along with exercises and some other language activities are given for the purpose of motivating students to study technical vocabulary within the texts. Reading activities are designed to help students study the comprehension of the passages and vocabulary as well. In some units cloze tests are given relating to the same topic in the unit to check students’ vocabulary comprehension. Each unit has also
translation and writing parts: in the translation part, students are required to translate the given passage into Turkish as an assignment; in writing part, various writing topics, closely related to the reading passages, are assigned to students as in-class activities or as homework. Since this is an ESP course book in Civil Engineering, the main aim of the passages is to motivate students to use technical English in their own professional fields and to enable them to master necessary technical terminology. Throughout their professional lives, almost all of the Engineering students will need English both technically and professionally in order to communicate with foreign people and companies they are doing business with. The course book is manly designed to be used in formal class sessions, but it can also be used by students and professionals of the field in self-study of the technical terminology. The design of the course book will enable students to learn new technical vocabulary and help them to comprehend technical passages with the aid of given almost 300 field-oriented vocabulary. The meanings of the new words are given as they are presented in the passages. That is to say, the contextual meanings of the vocabulary are given in the book. All in all, the book covers almost 400 exercises and various language study points. A Word to Learner: Discuss the given topics with your friends and make your own account of them Carefully study the pre-reading activities Make sure you study the topic-related technical vocabulary in advance Try to find out other related meanings of the vocabulary from an English Dictionary of Civil Engineering Read the passages in advance and study accompanying questions given As thought useful in the acquisition of language skills, translate the given passages into your native language without paying attention to linguistic details of the passage; just try to make them understand by your colleagues Writing tasks are designed for your use and make sure that they should be written academically and pay attention to the instructions given as well A Word to Teacher: Remember most activities in the book are pre-assigned activities to be assigned to students prior to studying the units. Warm-up discussion part should be done with teacher’s supervision in group, in pairs or individually. Pay attention to learners’ discussion technique; do not interrupt their conversation unless there is a communication failure. Encourage students to answer questions either orally or in writing. Make sure they use these questions to understand the passage better since they are text-related. In reading the text, let them first do a silent reading and then teacher can make a model reading. Make sure they understand the passage very well and encourage them to understand the passage after studying the vocabulary without referring to a dictionary. In reading activities, check their comprehension through given questions and related exercises. Assign them the cloze test. It is recommended less time be spent on this activity in class. Assign translation passages in advance and do not allocate more than 1 class hour for them in-class translation. Writing is also an important part of the unit, encourage students to write the assigned topics at home and discuss some students’ writing papers in class. Make sure feedback studies should be done after each unit and weak points are to be determined and additional studies can be done with students in class. In general, each unit can be allocated 6 hours in class study, but some units may take longer than this estimated time, so in designing the weekly/monthly or term lesson plans or programs, the time allocation can be taken into reconsideration as well.

This volume presents a range of views about language, learning, and teaching in English for Specific Purposes (ESP). Its purpose is to go beyond individual cases and practices to examine the approaches and ideas on which they are based. The aim is for readers to adopt an analytical stance toward the field and to identify current perspectives in ESP and the ideas driving them. Ideas and Options in English for Specific Purposes does not promote any one approach, but rather identifies and illustrates those in evidence today. The main emphasis is on the links between theory and ESP teaching and research. Ideas from linguistics, sociolinguistics, education, SLA, and social theories are described. Links are then made between these ideas and ESP course designs, instructional materials, and research projects. Thus the book moves back and forth between descriptions of theories, teaching practice, and research. Part I introduces the book’s approach to description of ESP and the framework used to investigate it. Part II examines ideas of language, learning, and teaching in ESP. Recognizing that ESP is taught in many different countries and contexts, the author draws on a wide range of examples of teaching practice and research from
around the world and from different branches of ESP, including English for Academic Purposes, English for Professional Purposes, and English for Vocational Purposes. From Chapter 3 onward, each chapter includes Questions for Discussion and Projects, to encourage readers to research and analyze the practices of ESP in their own contexts and to consider the ideas they draw on in their own teaching. This text is geared toward graduate-level TESOL education courses.

A leading psychoanalyst challenges the world of science and rational thinking as she explores the mysteries of intuition, mind and matter, and reality as she offers credible research into everything from cutting-edge neuroscience to suppressed military research and a Princeton lab experimenting with remote perception. Reprint. 22,500 first printing.

Ever since 1759, when Voltaire wrote "Candide" in ridicule of the notion that this is the best of all possible worlds, this world has been a gayer place for readers. Voltaire wrote it in three days, and five or six generations have found that its laughter does not grow old. "Candide" has not aged. Yet how different the book would have looked if Voltaire had written it a hundred and fifty years later than 1759. It would have been, among other things, a book of sights and sounds. A modern writer would have tried to catch and fix in words some of those Atlantic changes which broke the Atlantic monotony of that voyage from Cadiz to Buenos Ayres. When Martin and Candide were sailing the length of the Mediterranean we should have had a contrast between naked scarped Balearic cliffs and headlands of Calabria in their mists. We should have had quarter distances, far horizons, the altering silhouettes of an Ionian island. Colored birds would have filled Paraguay with their silver or acid cries. Dr. Pangloss, to prove the existence of design in the universe, says that noses were made to carry spectacles, and so we have spectacles. A modern satirist would not try to paint with Voltaire's quick brush the doctrine that he wanted to expose. And he would choose a more complicated doctrine than Dr. Pangloss's optimism, would study it more closely, feel his destructive way about it with a more learned and caressing malice. His attack, stealthier, more flexible and more patient than Voltaire's, would call upon us, especially when his learning got a little out of control, to be more than patient. Now and then he would bore us. "Candide" never bored anybody except William Wordsworth. Voltaire's men and women point his case against optimism by starting high and falling low. A modern could not go about it after this fashion. He would not plunge his people into an unfamiliar misery. He would just keep them in the misery they were born to.

Revised and updated in 2019 "This is the prettiest, most well-organized, useful and up to date guide to careers that I have ever seen." - Dick Bolles, author, What Color Is Your Parachute? Imagine your dream job. Whether you're set on making big bucks or a big difference, this is the go-to guide to get you there. ?? This comprehensive careers handbook is packed with ideas and inspiration to set you on the right career path. Tailor made to suit your individual strengths and interests, you'll work out where you want to go and the exact route to take. From actors, architects, astronauts, and air traffic controllers to soldiers, software engineers, school teachers, and sports stars, there are 400 exciting careers up for grabs and that means something for everyone.?? Explore the world of education, training, and work as never before using this eye-catching format and colorful graphics to keep things clear and simple. Each industry chapter introduces a variety of possible career options explored in detail, alongside an industry profile, suggested skillset, essential qualifications, salary expectations, possible routes into the industry, and similar career alternatives. The Careers Handbook is your own personal careers advisor, on hand to give you all the information and answers you need on the way to your perfect job. Fields included: - Health and Medicine - Sports, Leisure, and Tourism - Arts, Crafts, and Design - Performing Arts, Media, and Journalism - Sales, Marketing, and Advertising - Administration and Business Management - Finance, Law, and Politics - Information Technology and Computing - Science and Research - Animals, Farming, and the Environment - Engineering and Manufacturing - Construction - Transportation - Security and Emergency Services - Social Service and Teaching
The idea of interfacing minds with machines has long captured the human imagination. Recent advances in neuroscience and engineering are making this a reality, opening the door to restoration and augmentation of human physical and mental capabilities. Medical applications such as cochlear implants for the deaf and neurally controlled prosthetic limbs for the paralyzed are becoming almost commonplace. Brain-computer interfaces (BCIs) are also increasingly being used in security, lie detection, alertness monitoring, telepresence, gaming, education, art, and human augmentation. This introduction to the field is designed as a textbook for upper-level undergraduate and first-year graduate courses in neural engineering or brain-computer interfacing for students from a wide range of disciplines. It can also be used for self-study and as a reference by neuroscientists, computer scientists, engineers, and medical practitioners. Key features include questions and exercises in each chapter and a supporting website.

Petroleum Production Engineering, Second Edition, updates both the new and veteran engineer on how to employ day-to-day production fundamentals to solve real-world challenges with modern technology. Enhanced to include equations and references with today’s more complex systems, such as working with horizontal wells, workovers, and an entire new section of chapters dedicated to flow assurance, this go-to reference remains the most all-inclusive source for answering all upstream and midstream production issues. Completely updated with five sections covering the entire production spectrum, including well productivity, equipment and facilities, well stimulation and workover, artificial lift methods, and flow assurance, this updated edition continues to deliver the most practical applied production techniques, answers, and methods for today’s production engineer and manager. In addition, updated Excel spreadsheets that cover the most critical production equations from the book are included for download. Updated to cover today’s critical production challenges, such as flow assurance, horizontal and multi-lateral wells, and workovers Guides users from theory to practical application with the help of over 50 online Excel spreadsheets that contain basic production equations, such as gas lift potential, multilateral gas well deliverability, and production forecasting Delivers an all-inclusive product with real-world answers for training or quick look up solutions for the entire petroleum production spectrum.

Electrical Submersible Pumps Manual: Design, Operations and Maintenance, Second Edition continues to deliver the information needed with updated developments, technology and operational case studies. New content on gas handlers, permanent magnet motors, and newly designed stage geometries are all included. Flowing from basic to intermediate to special applications, particularly for harsh environments, this reference also includes workshop materials and class-style examples for trainers to utilize for the newly hired production engineer. Other updates include novel pump stage designs, high-performance motors and temperature problems and solutions specific for high temperature wells. Effective and reliable when used properly, electrical submersible pumps (ESPs) can be expensive to purchase and maintain. Selecting the correct pump and operating it properly are essential for consistent flow from production wells. Despite this, there is not a dedicated go-to reference to train personnel and engineers. This book keeps engineers and managers involved in ESPs knowledgeable and up-to-date on this advantageous equipment utilized for the oil and gas industry. Includes updates such as new classroom examples for training and more operational information, including production control Features a rewritten section on failures and troubleshooting Covers the latest equipment, developments and maintenance needed Serves as a useful daily reference for both practicing and newly hired engineers Explores basic electrical, hydraulics and motors, as well as more advanced equipment specific to special conditions such as production of deviated and high temperature wells.

This edited book focuses on current practices, challenges and innovations in the emerging field of English for Specific Purposes (ESP). By combining diverse, empirically-proven and innovative ESP practices from all over the world with inspiring theoretical input and reflections from experienced practitioners, the authors in this volume examine both best-practice examples and ESP programmes which by various metrics are deemed to have failed.
This book will be of interest to practitioners, teacher educators and researchers working in the field of ESP, as well as readers interested in language education and curriculum development more broadly.

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

The sketch-style depictions and unusual fonts create an eerie atmosphere where the reader has to decide if what they see really happened or if it is just a work of fiction. Includes writing space for your conclusions. This book makes a great group activity. This is not intended for children. Contains brief nudity.

Materials for Biomedical Engineering: Inorganic Micro- and Nanostructures presents recent, specific insights in new progress, along with new perspectives for inorganic micro- and nano-particles. The main focus of this book is on biomedical applications of these materials and how their biological properties are linked to various synthesis methods and their source of raw materials. Recent information regarding optimized synthesis methods to obtain improved nano- and microparticles for biomedical use, as well as the most important biomedical applications of these materials, such as the diagnosis and therapy of cancer, are highlighted in detail. Provides a valuable resource of recent scientific progress, highlighting the most well-known applications of inorganic micro- and nanostructures in bioengineering. Presents novel opportunities and ideas for developing or improving technologies in composites by companies, biomedical industries, and others Features at least 50% of its references from the last 2-3 years.

Innovative text focusing on engine design and fluid dynamics, with numerous illustrations and a web-based software tool.

CEF Levels: A1, A2 and B1. Career Paths English: Information Technology is a new educational resource for technology professionals who want to improve their English communication skills in a work environment. Incorporating career-specific vocabulary and contexts, each unit offers step-by-step instruction that immerses students in the four key language components: reading, listening, speaking, and writing. Career Paths English: Information Technology addresses topics including computer components, accessories, software, Internet security, web design and the future of the industry. The series is organized into three levels of difficulty and offers over 400 vocabulary terms and phrases. Every unit includes a test of reading comprehension, vocabulary, and listening skills, and leads students through written and oral production. Included Features: A variety of realistic reading passages; Career-specific dialogues; 45 reading and listening comprehension checks; Over 400 vocabulary terms and phrases; Guided speaking and writing exercises; Complete glossary of terms and phrases. The Teacher’s book contains full answer key and audio scripts. The audio CDs contain all recorded material in British English.

An educational resource for salon professionals who want to improve their English communication skills in a work environment. Incorporating career-specific vocabulary and contexts, each unit offers step-by-step instruction that immerses students in the four key language components: reading, listening, speaking and writing.

Introducing English for Specific Purposes presents the key concepts and practices of ESP in a modern, balanced, and comprehensive way. This book defines ESP and shows how the approach plays a crucial role in the world of English language teaching. Explaining how needs analysis, language and learning objectives, materials and methods, and evaluation combine to form the four main pillars of ESP, the book includes: practical examples that illustrate how the core theories and practices of ESP can be applied in real-world academic and occupational settings; discussion of some of the most hotly debated issues in ESP;
insights on how ESP courses can be organized and integrated to form a complete program; reflection boxes, practical tasks, extension research questions, and resources for further reading in each chapter. Introducing English for Specific Purposes serves as an ideal textbook for graduate and advanced undergraduate students studying courses on English for Specific Purposes or English for Academic Purposes, as part of degrees in English for Specific Purposes, Education, ELT, Applied Linguistics, TESOL or TEFL. This comprehensive publication is also an invaluable reference resource for pre-service and in-service teachers of ESP, and for English program managers and administrators.

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity’s most pressing current and future challenges. The United States’ position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students’ interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

Beginning with a basic primer on reverse engineering—including computer internals, operating systems, and assembly language—and then discussing the various applications of reverse engineering, this book provides readers with practical, in-depth techniques for software reverse engineering. The book is broken into two parts, the first deals with security-related reverse engineering and the second explores the more practical aspects of reverse engineering. In addition, the author explains how to reverse engineer a third-party software library to improve interfacing and how to reverse engineer a competitor’s software to build a better product. * The first popular book to show how software reverse engineering can help defend against security threats, speed up development, and unlock the secrets of competitive products * Helps developers plug security holes by demonstrating how hackers exploit reverse engineering techniques to crack copy-protection schemes and identify software targets for viruses and other malware * Offers a primer on advanced reverse-engineering, delving into "disassembly"-code-level reverse engineering—and explaining how to decipher assembly language

Discussion of the Method is an ideal supplement for introductory and advanced courses in engineering, philosophy, and other disciplines, as well as a compelling read for general audiences. "--BOOK JACKET.

Introducing Course Design in English for Specific Purposes is an accessible and practical
introduction to the theory and practice of developing ESP courses across a range of disciplines. The book covers the development of courses from needs analysis to assessment and evaluation, and also comes with samples of authentic ESP courses provided by leading ESP practitioners from a range of subject and global contexts. Included in this book are: The basics of ESP course design The major current theoretical perspectives on ESP course design Tasks, reflections and glossary to help readers consolidate their understanding Resources for practical ESP course development Examples of authentic ESP courses in areas such as business, aviation and nursing Introducing Course Design in English for Specific Purposes is essential reading for pre-service and in-service teachers, and students studying ESP and applied linguistics.

Technical English Level 1 covers the core language and skills that students need to communicate successfully in all technical and industrial specifications.

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