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An excellent text for clients to read before meeting with attorneys so they'll understand the fundamentals of patent, copyright, trade secret, trademark, mask work, and unfair competition laws. This is not a "do-it-yourself" manual but rather a ready reference tool for inventors or creators that will generate maximum efficiencies in obtaining, preserving and enforcing their intellectual property rights. It explains why they need to secure the services of IPR attorneys. Coverage includes employment contracts, including the ability of engineers to take confidential and secret knowledge to a new job, shop rights and information to help an entrepreneur establish a non-conflicting enterprise when leaving their prior employment. Sample forms of contracts, contract clauses, and points to consider before signing employment agreements are included. Coverage of copyright, software protection, and the Digital Millennium Copyright Act (DMCA) as well as the procedural variances in international intellectual property laws and procedures. This text teaches the essentials of C programming, concentrating on what readers need to know in order to produce stand-alone programs and so solve typical scientific and engineering problems. It is a learning-by-doing book, with many examples and exercises, and lays a foundation of scientific programming concepts and techniques that will prove valuable for those who might eventually move on to another language. Written for undergraduates who are familiar with computers and typical applications but are new to programming. This is an advanced textbook on the subject of turbulence, and is suitable for engineers, geophysicists, and applied mathematicians. The aim of the book is to bridge the gap between the elementary, heuristic accounts of turbulence to be found in undergraduate texts, and the more rigorous, if daunting, accounts given in the many monographs on the subject. Throughout, the book combines the maximum of physical insight with the minimum of mathematical detail. "This completely revised new edition is based on the latest version of MATLAB. New chapters cover handle graphics, graphical user interfaces (GUIs), structures and cell arrays, and importing/exporting data. The chapter on numerical methods now includes a general GUI-driver ODE solver."--Jacket. A new type of text for non-majors in electrical engineering, this book satisfies the need for all educated persons to comprehend some basics of electronic technology and the Internet. Class-tested with 300 students at Northwestern University, Electronics and Communications for Scientists and Engineers has been written to meet the recent recommendations of the ABET Criteria 2000 standards for revised engineering curricula. This text covers the essential topics of electronics and communications that need to be understood by students and practitioners in various engineering fields and applied sciences. It contains the best layman's explanation of electronic underpinnings of the World Wide Web currently available in a textbook. It is also appropriate for science and liberal arts majors who need to take an elective course in digital technology, including computing and communications. 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. Data Analysis for Scientists and Engineers is a modern, graduate-level text on data analysis techniques for physical science and engineering students as well as working scientists and engineers. Edward Robinson emphasizes the principles behind various techniques so that practitioners can adapt them to their own problems, or develop new techniques when necessary. Robinson divides the book into three sections. The first section covers basic concepts in probability and includes a chapter on Monte Carlo methods with an extended discussion of Markov chain Monte Carlo sampling. The second section introduces statistics and then develops tools for fitting models to data, comparing and contrasting techniques from both frequentist and Bayesian perspectives. The final section is devoted to methods for analyzing sequences of data, such as correlation functions, periodograms, and image reconstruction. While it goes beyond elementary statistics, the text is self-contained and accessible to readers from a wide variety of backgrounds. Specialized mathematical topics are included in an appendix. Based on a graduate course on data analysis that the author has taught for many years, and couched in the looser, workaday language of scientists and engineers who wrestle directly with data, this book is ideal for courses on data analysis and a valuable resource for students, instructors,

and practitioners in the physical sciences and engineering. In-depth discussion of data analysis for scientists and engineers Coverage of both frequentist and Bayesian approaches to data analysis Extensive look at analysis techniques for time-series data and images Detailed exploration of linear and nonlinear modeling of data Emphasis on error analysis Instructor's manual (available only to professors) Why should the student of engineering study management? Engineering skills alone do not meet real world requirements; they have to be supplemented by management training. In fact, after graduation, most engineers will find that their success depends as much on general management skills and understanding operational systems as on their technical expertise. To become a complete engineer, a student needs a firm foundation in these skills ? Management for Engineers provides such a foundation. Practical and accessible, the book aims to equip the reader with all the skills and management related topics covered in an undergraduate or graduate course in engineering management. Management for Engineers is based on the Engineering Management Programme at City University, London, a course which offers all its undergraduate engineers portable management skills, presenting them with the most recent management concepts and covering such issues as: management of quality, materials and new product development human resource management and communication project management and critical path networks management of the supply system and inventory control employment law and the single European market The authors have a combined experience of more than 80 years in senior management in industry. This practical management experience, which is brought to bear in the text, is enhanced by sections drawn from other management courses ? in particular from the unique MBA in Engineering Management and from the highly successful BSc in Management and Systems. The combination of real world experience and academic pedigree to be found in Management for Engineers makes this the most appropriate text for the student of today and the engineer of tomorrow. The book provides a comprehensive review of lifelong learning, information literacy and internships including assessment techniques for lifelong learning, teamwork and information literacy as defined by the ABET criteria. It also discusses critical thinking skills for scientists and engineers and their role in lifelong learning in the information age. It will be invaluable for: Engineering educators including librarians interested in developing programs to satisfy the ABET criteria for lifelong learning and teamwork. Engineering librarians developing programs and assessment tools for information literacy using online databases and the Internet. Engineering educators and career advisors interested in developing internship programs in engineering. An internship is defined as work performed in an industrial setting that provides practical experience and adds value to the classroom and research learning processes. This book will cover all aspects involved in administering internship and cooperative education programs. Employers of interns will find useful information on needs assessment, program development, evaluation and the importance of lifelong learning; and, Science and engineering educators interested in developing critical thinking skills in their students as an aid to developing lifelong learning skills especially given the challenges in the digital age. Provides information on how to develop programs and assessment tools for information literacy Describes how to set up an internship program Develops critical thinking skills Genetic engineering, nanotechnology, astrophysics, particle physics: We live in an engineered world, one where the distinctions between science and engineering, technology and research, are fast disappearing. This book shows how, at the dawn of the twenty-first century, the goals of natural scientists--to discover what was not known--and that of engineers--to create what did not exist--are undergoing an unprecedented convergence. Sunny Y. Auyang ranges widely in demonstrating that engineering today is not only a collaborator with science but its equal. In concise accounts of the emergence of industrial laboratories and chemical and electrical engineering, and in whirlwind histories of the machine tools and automobile industries and the rise of nuclear energy and information technology, her book presents a broad picture of modern engineering: its history, structure, technological achievements, and social responsibilities; its relation to natural science, business administration, and public policies. Auyang uses case studies such as the development of the F-117A Nighthawk and Boeing 777 aircraft, as well as the experiences of engineer-scientists such as Oliver Heaviside, engineer-entrepreneurs such as Henry Ford and Bill Gates, and engineer-managers such as Alfred Sloan and Jack Welch to give readers a clear sense of engineering's essential role in the future of scientific research. Table of Contents: Preface 1. Introduction 2. Technology Takes Off 2.1 From Practical Art to Technology 2.2 Construction Becomes Mathematical 2.3 Experimenting with Machines 2.4 Science and Chemical Industries 2.5 Power and Communication 3. Engineering for Information 3.1 From Microelectronics to Nanotechnology 3.2 Computer Hardware and Software 3.3 Wireless, Satellites, and the Internet 4. Engineering in Society 4.1 Social Ascent and Images of Engineers 4.2 Partnership in Research and Development 4.3 Contributions to Sectors of the Economy 5. Innovation by Design 5.1 Inventive Thinking in Negative Feedback 5.2 Design Processes in Systems Engineering 5.3 "Working Together" in Aircraft Development 5.4 From Onboard Computers to Door Hinges 6. Sciences of Useful Systems 6.1 Mathematics in Engineering and Science 6.2 Information and Control Theories 6.3 Wind Tunnels and Internet Simulation 6.4 Integrative Materials Engineering 6.5 Biological Engineering Frontiers 7. Leaders Who Are Engineers 7.1 Business Leaders in the Car Industry 7.2 Public Policies and Nuclear Power 7.3 Managing Technological Risks Appendix A. Statistical Profiles of Engineers Appendix B. U.S. Research and Development Notes Index I am impressed by the scope of Engineering - An Endless Frontier, and fascinated by Sunny Auyang's comprehensive knowledge of the subject. This is just the kind of book the National Academy of Engineering has been encouraging to promote the importance of engineering to the public. It will have a long shelf-life in that it pulls together material that is not readily accessible, and will serve as a reference for anyone interested in engineering as a profession. Engineering needs this book! --John Hutchinson, Harvard University Engineering - An Endless Frontier is extraordinary in scope. Sunny Auyang describes the different kinds of contemporary engineering practices and productions, attempts to provide historical background, explains the scientific basis for engineering innovation in different fields, and addresses the broad, systems level managerial, entrepreneurial, and design activities of professionals. It's rare to find a single author who can grasp and explain the essential features of modern technologies across such an array of industrial sectors and engineering disciplines and explain how they work, why they work they way they do, and what is required for their innovation, development and, yes, even maintenance. --Louis L. Bucciarelli, Professor Emeritus of Engineering and Technology Studies, MIT Technical Writing: A Practical Guide for Engineers, Scientists, and Nontechnical Professionals, Second Edition enables readers to write, edit, and publish materials of a technical nature, including books, articles, reports, and electronic media. Written by a renowned engineer and widely published technical author, this guide complements traditional writer's reference manuals on technical writing through presentation of first-hand examples that help readers understand practical considerations in writing and producing technical content. These examples illustrate how a publication originates as well as various challenges and solutions. The second edition contains new material in every chapter including new topics, additional examples, insights, tips and tricks, new vignettes and more exercises. Appendices have been added for writing checklists and writing samples. The references and glossary have been updated and expanded. In addition, a focus on writing for the nontechnical persons working in the technology world and the nonnative English speaker has been incorporated. Written in an informal, conversational style, unlike traditional college writing texts, the book also contains many interesting vignettes and personal stories to add interest to otherwise stodgy lessons. Fortran for Scientists and Engineers teaches simultaneously both the fundamentals of the Fortran language and a programming style that results in good, maintainable programs. In addition, it serves as a reference for Professionals working in the industry. Among its strengths are its concise, clear explanations of Fortran Syntax and Programming Procedures, the inclusion of a wealth of examples and exercises to help students grasp difficult concepts, and its explanations about how to understand code written for older versions of Fortran. When ungroovy scientists did groovy science: how non-activist scientists and engineers adapted their work to a rapidly changing social and political landscape. In The Squares, Cyrus Mody shows how, between the late 1960s and the early 1980s, some scientists and engineers who did not consider themselves activists, New Leftists, or members of the counterculture accommodated their work to the rapidly changing social and political landscape of the time. These "square scientists," Mody shows, began to do many of the things that the counterculture urged: turn away from military-industrial funding, become more interdisciplinary, and focus their research on solving problems of civil society. During the period Mody calls "the long 1970s," ungroovy scientists were doing groovy science. Mody offers a series of case studies of some of these collective efforts by non-activist scientists to use their technical knowledge for the good of society. He considers the region around Santa Barbara and the interplay of public universities, think tanks, established firms, new companies, philanthropies, and social movement organizations. He looks at Stanford University's transition from Cold War science to commercialized technoscience; NASA's search for a post-Apollo mission; the unsuccessful foray into solar energy by Nobel laureate Jack Kilby; the "civilianization" of the US semiconductor industry; and systems engineer Arthur D. Hall's ill-fated promotion of automated agriculture. The only source that focuses exclusively on engineering and technology, this important guide maps the dynamic and changing field of information sources published for engineers in recent years. Lord highlights basic perspectives, access tools, and English-language resources—directories, encyclopedias, yearbooks, dictionaries, databases, indexes, libraries, buyer's guides, Internet resources, and more. Substantial emphasis is placed on digital resources. The author also discusses how engineers and scientists use information, the culture and generation of scientific information, different types of engineering information, and the tools and resources you need to locate and access that material. Other sections describe regulations, standards and specifications, government resources, professional and trade associations, and education and career resources. Engineers, scientists, librarians, and other information professionals working with engineering and technology information will welcome this research KEY BENEFIT Essential business lessons for turning today's scientists and engineers into entrepreneurs in new technology companies. In today's global and interconnected world, students with a science or engineering background have ample opportunity to mesh their technical know-how with the free market. Yet, these same students lack the basic business skills to make competent business decisions. This book seeks to make students' first experience with entrepreneurship interesting and useful. KEY TOPICS Technology Entrepreneurship for Scientists and Engineers; Developing and Protecting Intellectual Property; Technology Entrepreneurship Strategy; Start-up Financial Strategy As the source of new discoveries and technologies, scientists and engineers are uniquely positioned to launch new business ventures based on cutting-edge discoveries. This book will teach those with no prior training how to start a company and grow their business through marketing and astute team building techniques. A SCIENTIFIC APPROACH TO WRITING Technical ideas may be solid or even groundbreaking, but if these ideas cannot be clearly communicated, reviewers of technical documents—e.g., proposals for research funding, articles submitted to scientific journals, and business plans to commercialize technology—are likely to reject the argument for advancing these ideas. The problem is that many engineers and scientists, entirely comfortable with the logic and principles of mathematics and science, treat writing as if it possesses none of these attributes. The absence of a systematic framework for writing often results in sentences that are difficult to follow or arguments that leave reviewers scratching their heads. This book fixes that problem by presenting a "scientific" approach to writing that mirrors the sensibilities of scientists and engineers, an approach based on an easily-discernable set of principles. Rather than merely stating rules for English grammar and composition, this book explains the reasons behind these rules and shows that good reasons can guide every writing decision. This resource is also well suited for the growing number of scientists and engineers in the U.S. and elsewhere who speak English as a second language, as well as for anyone else who just wants to be understood. Engineering has long gravitated toward great human ambitions: navigation of the oceans, travel to the moon and back, Earth exploration, national security, industrial and agricultural revolutions, communications, and transportation. Some ambitions have been realized, some remain unfulfilled, and some are yet to be determined. In 2008 a committee of distinguished engineers, scientists, entrepreneurs, and visionaries set out to identify the most important, tractable engineering system challenges that must be met in this century for human life as we know it to continue on this planet. For the forum at the National Academy of Engineering's 2015 annual meeting, 7 of the 18 committee members who formulated the Grand Challenges for Engineering in 2008 reflected on what has happened in the seven year since. Grand Challenges for Engineering: Imperatives, Prospects, and Priorities summarizes the discussions and presentations from this forum. Teaches scientists and engineers leadership skills and problem solving to facilitate management of team members, faculty, and staff This textbook introduces readers to open-ended problems focused on interactions between technical and nontechnical colleagues, bosses, and subordinates. It does this through mini case studies that illustrate scenarios where simple, clear, or exact solutions are not evident. By offering examples of dilemmas in technical leadership along with selected analyses of possible ways to address or consider such issues, aspiring or current leaders are made aware of the types of problems they may encounter. This situational approach also allows the development of methodologies to address these issues as well as

future variations or new issues that may arise. Leadership by Engineers and Scientists guides and facilitates approaches to solving leadership/people problems encountered by technically trained individuals. Students and practicing engineers will learn leadership by being asked to consider specific situations, debate how to deal with these issues, and then make decisions based on what they have learned. Readers will learn technical leadership fundamentals; ethics and professionalism; time management; building trust and credibility; risk taking; leadership through questions; creating a vision; team building and teamwork; running an effective meeting; conflict management and resolution; communication; and presenting difficult messages. Describes positive traits and characteristics that technically-trained individuals bring to leadership positions, indicates how to use these skills, and describes attitudes and approaches necessary for effectively serving as leaders. Covers negative traits and characteristics that can be detrimental when applied to dealing with others in their role as leaders. Discusses situations and circumstances routinely encountered by new and experienced leaders of small teams. Facilitates successful transitions into leadership and management positions by individuals with technical backgrounds. Indicates how decisions can be reached when constraints of different personalities, time frames, economics, and organization politics and culture inhibit consensus. Augments technical training by building awareness of the criticality of people skills in effective leadership. Leadership by Engineers and Scientists is an excellent text for technically trained individuals who are considering, anticipating, or have recently been promoted to formal leadership positions in industry or academia. Designed for the introductory calculus-based physics course, Physics for Engineers and Scientists is distinguished by its lucid exposition and accessible coverage of fundamental physical concepts. Presenting a modern view of classical mechanics and electromagnetism for today's science and engineering students, it includes coverage of optics and quantum physics, emphasising the relationship between macroscopic and microscopic phenomena. Organised to address specific concepts and then build on them, this highly readable textbook divides each chapter into short, focused sections followed by review questions. Using real-world examples, the authors offer a glimpse of the practical applications of physics in science and engineering, developing a solid conceptual foundation before introducing mathematical results and derivations (a basic knowledge of derivatives and integrals is assumed). Real World Data Sets with new problems along with ARIS, McGraw-Hill's Homework Management System, define what this second edition has to offer. Within ARIS, Navidi offers 300 algorithmic practice problems along with Java applets that allow students to interactively explore ideas in the text. Customizable PowerPoint lecture notes for each chapter are available as well, along with suggested syllabi, and other features. More information can be found at [aris.mhhe.com](http://aris.mhhe.com). This new edition includes more than 200 new exercises, a new section on point estimation on histograms, and provides discussion of Chebyshev's inequality. The tools and techniques used in Design of Experiments (DoE) have been proven successful in meeting the challenge of continuous improvement in many manufacturing organisations over the last two decades. However research has shown that application of this powerful technique in many companies is limited due to a lack of statistical knowledge required for its effective implementation. Although many books have been written on this subject, they are mainly by statisticians, for statisticians and not appropriate for engineers. Design of Experiments for Engineers and Scientists overcomes the problem of statistics by taking a unique approach using graphical tools. The same outcomes and conclusions are reached as through using statistical methods and readers will find the concepts in this book both familiar and easy to understand. This new edition includes a chapter on the role of DoE within Six Sigma methodology and also shows through the use of simple case studies its importance in the service industry. It is essential reading for engineers and scientists from all disciplines tackling all kinds of manufacturing, product and process quality problems and will be an ideal resource for students of this topic. Written in non-statistical language, the book is an essential and accessible text for scientists and engineers who want to learn how to use DoE. Explains why teaching DoE techniques in the improvement phase of Six Sigma is an important part of problem solving methodology. New edition includes a full chapter on DoE for services as well as case studies illustrating its wider application in the service industry. This book provides a pragmatic, methodical and easy-to-follow presentation of numerical methods and their effective implementation using MATLAB, which is introduced at the outset. Each method is accompanied by at least one fully worked-out example showing essential details involved in preliminary hand calculations, as well as computations in MATLAB -- Publisher description. Software Design for Engineers and Scientists integrates three core areas of computing: . Software engineering - including both traditional methods and the insights of 'extreme programming' . Program design - including the analysis of data structures and algorithms . Practical object-oriented programming Without assuming prior knowledge of any particular programming language, and avoiding the need for students to learn from separate, specialised Computer Science texts, John Robinson takes the reader from small-scale programming to competence in large software projects, all within one volume. Copious examples and case studies are provided in C++. The book is especially suitable for undergraduates in the natural sciences and all branches of engineering who have some knowledge of computing basics, and now need to understand and apply software design to tasks like data analysis, simulation, signal processing or visualisation. John Robinson introduces both software theory and its application to problem solving using a range of design principles, applied to the creation of medium-sized systems, providing key methods and tools for designing reliable, efficient, maintainable programs. The case studies are presented within scientific contexts to illustrate all aspects of the design process, allowing students to relate theory to real-world applications. Core computing topics - usually found in separate specialised texts - presented to meet the specific requirements of science and engineering students. Demonstrates good practice through applications, case studies and worked examples based in real-world contexts. Topics are divided between review material on the mathematics background; numerical-analysis methods such as differentiation, integration, the solution of differential equations from engineering, life and physical sciences; data-analysis applications including least-squares fitting, splines and Fourier expansions. Unique in its project orientation, it features a vast amount of exercises with emphasis on realistic examples from current applications. This concise book for engineering and sciences students emphasizes modern statistical methodology and data analysis. APPLIED STATISTICS FOR ENGINEERS AND SCIENTISTS is ideal for one-term courses that cover probability only to the extent that it is needed for inference. The authors emphasize application of methods to real problems, with real examples throughout. The text is designed to meet ABET standards and has been updated to reflect the most current methodology and practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! This briefer, paperbound version does not contain the end-of-chapter problems, which can be accessed in Enhanced WebAssign, the online homework and learning system for this book. Access to Enhanced WebAssign and an eBook version is included with this Hybrid version. The eBook is the full version of the text, with all end-of-chapter questions and problem sets.

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