

Final Exam Kfupm

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Nonlinear Optics - George I. Stegeman 2012-07-24

Clear, integrated coverage of all aspects of nonlinear optics—phenomena, materials, and devices Coauthored by George Stegeman, one of the most highly respected pioneers of nonlinear optics—with contributions on applications from Robert Stegeman—this book covers nonlinear optics from a combined physics, optics, materials science, and devices perspective. It offers a thoroughly balanced treatment of concepts, nonlinear materials, practical aspects of nonlinear devices, and current application areas. Beginning with the presentation of a simple electron on a spring model—to help readers make the leap from concepts to applications—Nonlinear Optics gives comprehensive explanations of second-order phenomena, derivation of nonlinear susceptibilities, third-order nonlinear effects, multi-wave mixing, scattering, and more. Coverage includes: Nonlinear response of materials at the molecular level Second-order nonlinear devices, their optimization and limitations The physical origins of second- and third-order nonlinearities Typical frequency dispersion of nonlinearities, explained in terms of simple two- and three-level models Ultrafast and ultrahigh intensity processes Practice problems demonstrating the design of such nonlinear devices as frequency doublers and optical oscillators Based on more than twenty years of lectures at the College of Optics and Photonics (CREOL) at the University of Central Florida, Nonlinear Optics introduces all topics from the ground up, making the material easily accessible not only for physicists, but also for chemists and materials scientists, as well as professionals in diverse areas of optics, from laser physics to electrical engineering.

Chemical and Engineering Thermodynamics - Stanley I. Sandler 1989

A revised edition of the well-received thermodynamics text, this work retains the thorough coverage and excellent organization that made the first edition so popular. Now incorporates industrially relevant microcomputer programs, with which readers can perform sophisticated thermodynamic calculations, including calculations of the type they will encounter in the lab and in industry. Also provides a unified treatment of phase equilibria. Emphasis is on analysis and prediction of liquid-liquid and vapor-liquid equilibria, solubility of gases and solids in liquids, solubility of liquids and solids in gases and supercritical fluids, freezing point depressions and osmotic equilibria, as well as traditional vapor-liquid and chemical reaction equilibria. Contains many new illustrations and exercises.

Internet of Things. IoT Infrastructures - Benny Mandler 2016-11-17

The two-volume set LNCS 169 and 170 constitutes the thoroughly refereed post-conference proceedings of the Second International Internet of Things Summit, IoT 360° 2015, held in Rome, Italy, in October 2015. The IoT 360° is an event bringing a 360 degree perspective on IoT-related projects in important sectors such as mobility, security, healthcare and urban spaces. The conference also aims to coach involved people on the whole path between research to innovation and the way through to commercialization in the IoT domain. This volume contains 62 revised full papers at the following four conferences: The International Conference on Safety and Security in Internet of Things, SaSeIoT, the International Conference on Smart Objects and Technologies for Social Good, GOODTECHS, the International Conference on Cloud, Networking for IoT systems, CN4IoT, and the International Conference on IoT Technologies for HealthCare, HealthyIoT.

Auditing and Attestation - Nathan M Bisk, JD, CPA 2003-10-01

Lost in the Fog - James De Mille 2004-09

Immediately in front of them arose a vast cliff, --black, rocky, frowning, --that ascended straight up from the deep water, its summit lost in the thick fog, its base white with the foaming waves that thundered there. A hoarse roar came up from those breaking waves, which blended fearfully with the whistle of the wind through the rigging, and seemed like the

warning sound of some dark, drear fate. The cliff was close by, and the schooner had been steering straight towards it. So near was it that it seemed a though one could have easily tossed a biscuit ashore.

Digital Forensic Evidence Examination - Fred Cohen 2012-03-01

Digital Forensic Evidence Examination focuses on the scientific basis for analysis, interpretation, attribution, and reconstruction of digital forensic evidence in a legal context. It defines the bounds of "Information Physics" as it affects digital forensics, describes a model of the overall processes associated with the use of such evidence in legal matters, and provides the detailed basis for the science of digital forensic evidence examination. It reviews and discusses digital forensic evidence analysis, interpretation, attribution, and reconstruction and their scientific bases, discusses tools and methodologies and their limits, and reviews the state of the science and its future outlook.

Principles of Turbomachinery - R. K. Turton 2012-12-06

This text outlines the fluid and thermodynamic principles that apply to all classes of turbomachines, and the material has been presented in a unified way. The approach has been used with successive groups of final year mechanical engineering students, who have helped with the development of the ideas outlined. As with these students, the reader is assumed to have a basic understanding of fluid mechanics and thermodynamics. However, the early chapters combine the relevant material with some new concepts, and provide basic reading references. Two related objectives have defined the scope of the treatment. The first is to provide a general treatment of the common forms of turbo machine, covering basic fluid dynamics and thermodynamics of flow through passages and over surfaces, with a brief derivation of the fundamental governing equations. The second objective is to apply this material to the various machines in enough detail to allow the major design and performance factors to be appreciated. Both objectives have been met by grouping the machines by flow path rather than by application, thus allowing an appreciation of points of similarity or difference in approach. No attempt has been made to cover detailed points of design or stressing, though the cited references and the body of information from which they have been taken give this sort of information. The first four chapters introduce the fundamental relations, and the succeeding chapters deal with applications to the various flow paths.

Security+ Guide to Network Security Fundamentals - Mark Ciampa 2012-07-27

Reflecting the latest trends and developments from the information security field, best-selling Security+ Guide to Network Security Fundamentals, Fourth Edition, provides a complete introduction to practical network and computer security and maps to the CompTIA Security+ SY0-301 Certification Exam. The text covers the fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. The updated edition includes new topics, such as psychological approaches to social engineering attacks, Web application attacks, penetration testing, data loss prevention, cloud computing security, and application programming development security. The new edition features activities that link to the Information Security Community Site, which offers video lectures, podcats, discussion boards, additional hands-on activities and more to provide a wealth of resources and up-to-the minute information. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Pumping Machinery Theory and Practice - Hassan M. Badr 2015-02-16

Pumping Machinery Theory and Practice comprehensively covers the theoretical foundation and applications of pumping machinery. Key features: Covers characteristics of centrifugal pumps, axial flow pumps and displacement pumps Considers pumping machinery performance and operational-type problems Covers advanced topics in pumping machinery including multiphase flow principles, and two and three-phase

flow pumping systems Covers different methods of flow rate control and relevance to machine efficiency and energy consumption Covers different methods of flow rate control and relevance to machine efficiency and energy consumption

E-Learning - Adilson Guelfi 2012-02-17

Technology development, mainly for telecommunications and computer systems, was a key factor for the interactivity and, thus, for the expansion of e-learning. This book is divided into two parts, presenting some proposals to deal with e-learning challenges, opening up a way of learning about and discussing new methodologies to increase the interaction level of classes and implementing technical tools for helping students to make better use of e-learning resources. In the first part, the reader may find chapters mentioning the required infrastructure for e-learning models and processes, organizational practices, suggestions, implementation of methods for assessing results, and case studies focused on pedagogical aspects that can be applied generically in different environments. The second part is related to tools that can be adopted by users such as graphical tools for engineering, mobile phone networks, and techniques to build robots, among others. Moreover, part two includes some chapters dedicated specifically to e-learning areas like engineering and architecture.

Fundamental Principles of Reservoir Engineering - Brian F. Towler 2002

Fundamental Principles of Reservoir Engineering outlines the techniques required for the basic analysis of reservoirs prior to simulation. It reviews rock and fluid properties, reservoir statics, determination of original oil and gas in place

Managing Software Requirements - Dean Leffingwell 2000

A classic treatise that defined the field of applied demand analysis, *Consumer Demand in the United States: Prices, Income, and Consumption Behavior* is now fully updated and expanded for a new generation. Consumption expenditures by households in the United States account for about 70% of America's GDP. The primary focus in this book is on how households adjust these expenditures in response to changes in price and income. Econometric estimates of price and income elasticities are obtained for an exhaustive array of goods and services using data from surveys conducted by the Bureau of Labor Statistics, providing a better understanding of consumer demand. Practical models for forecasting future price and income elasticities are also demonstrated. Fully revised with over a dozen new chapters and appendices, the book revisits the original Taylor-Houthakker models while examining new material as well, such as the use of quantile regression and the stationarity of consumer preference. It also explores the emerging connection between neuroscience and consumer behavior, integrating the economic literature on demand theory with psychology literature. The most comprehensive treatment of the topic to date, this volume will be an essential resource for any researcher, student or professional economist working on consumer behavior or demand theory, as well as investors and policymakers concerned with the impact of economic fluctuations.

Mechanical Vibration - William John Palm 2007

Model, analyze, and solve vibration problems, using modern computer tools. Featuring clear explanations, worked examples, applications, and modern computer tools, William Palm's *Mechanical Vibration* provides a firm foundation in vibratory systems. You'll learn how to apply knowledge of mathematics and science to model and analyze systems ranging from a single degree of freedom to complex systems with two and more degrees of freedom. Separate MATLAB sections at the end of most chapters show how to use the most recent features of this standard engineering tool, in the context of solving vibration problems. The text introduces Simulink where solutions may be difficult to program in MATLAB, such as modeling Coulomb friction effects and simulating systems that contain non-linearities. Ample problems throughout the text provide opportunities to practice identifying, formulating, and solving vibration problems. **KEY FEATURES** Strong pedagogical approach, including chapter objectives and summaries Extensive worked examples illustrating applications Numerous realistic homework problems Up-to-date MATLAB coverage The first vibration textbook to cover Simulink Self-contained introduction to MATLAB in Appendix A Special section dealing with active vibration control in sports equipment Special sections devoted to obtaining parameter values from experimental data

Introduction to Chemical Engineering Computing - Bruce A. Finlayson 2014-03-05

Step-by-step instructions enable chemical engineers to master key software programs and solve complex problems Today, both students and

professionals in chemical engineering must solve increasingly complex problems dealing with refineries, fuel cells, microreactors, and pharmaceutical plants, to name a few. With this book as their guide, readers learn to solve these problems using their computers and Excel, MATLAB, Aspen Plus, and COMSOL Multiphysics. Moreover, they learn how to check their solutions and validate their results to make sure they have solved the problems correctly. Now in its Second Edition, *Introduction to Chemical Engineering Computing* is based on the author's firsthand teaching experience. As a result, the emphasis is on problem solving. Simple introductions help readers become conversant with each program and then tackle a broad range of problems in chemical engineering, including: Equations of state Chemical reaction equilibria Mass balances with recycle streams Thermodynamics and simulation of mass transfer equipment Process simulation Fluid flow in two and three dimensions All the chapters contain clear instructions, figures, and examples to guide readers through all the programs and types of chemical engineering problems. Problems at the end of each chapter, ranging from simple to difficult, allow readers to gradually build their skills, whether they solve the problems themselves or in teams. In addition, the book's accompanying website lists the core principles learned from each problem, both from a chemical engineering and a computational perspective. Covering a broad range of disciplines and problems within chemical engineering, *Introduction to Chemical Engineering Computing* is recommended for both undergraduate and graduate students as well as practicing engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem.

Introduction to Logic Design - Alan B. Marcovitz 2010

This book is intended as an introductory logic design book for students in computer science, computer engineering, and electrical engineering. It has no prerequisites, although the maturity attained through an introduction to engineering course or a first programming course would be helpful.

Discrete Mathematics Through Applications - Nancy Crisler 2005-12-23

Listen here for author Nancy Crisler's introduction to *Discrete Mathematics Through Applications*. Written specifically for high school courses, *Discrete Mathematics Through Applications* is designed to help you put the established NCTM Standards for Discrete Math to work in your classroom, in a way that promotes active learning, critical thinking, and fully-engaged student participation. With this text, students will see the connections among mathematical topics and real-life events and situations, while sharpening their problem solving, mathematical reasoning and communication skills. The new edition adds new topics and significantly revised exercise sets and enhanced supplements.

Advice for a Successful Career in the Accounting Profession - Jerry Maginnis 2021-10-12

Practical guidance to optimize the benefits of your accounting degree—no matter what stage of your career! Originally conceived and designed to provide helpful advice to college and university accounting majors and early-career professionals, this book evolved into a valuable resource for those groups as well as others who may be further along in their accounting careers. It contains many practical examples and real-life experiences from a long and successful career in the profession that you won't find in any accounting, auditing, or tax textbook. And it is written in a fun and engaging style with a simple goal in mind: to share lessons learned and insights that will help accountants of all ages optimize their career opportunities! Jerry Maginnis, CPA, the former Office Managing Partner for the Philadelphia office of KPMG, one of the "Big Four" Accounting Firms, currently serves as the "Accounting Executive in Residence" at Rowan University in Southern New Jersey. In this role, he has counseled and mentored dozens of students and early career professionals. The book leverages Jerry's real-world experience and his advice and counsel is delivered in a fashion that will make you feel like you are having a one on one conversation with him! Readers will also enjoy: Advice delivered concisely: each chapter is succinct and provides essential takeaways and action plans for all points in a career A guidebook that is efficiently organized into three sections—for college and university students, for early-career professionals, for accountants of all ages and experience levels—allowing the reader to focus on the sections that are most applicable to them An excellent refresher or reminder of concepts or principles that are important to even the most successful and experienced accountants Loaded with "real world" tips and techniques, *Advice for a Successful Career in the Accounting Profession* is an ideal resource for accountants and auditors, tax and advisory professionals, and University professors and high school

instructors teaching Accounting, undeclared business majors, underrepresented populations, and students aspiring to become CPAs. *Data Structures and Algorithms in Python* - Michael T. Goodrich 2013-03-08

Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. *Data Structures and Algorithms in Python* is the first authoritative object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same general structure as *Data Structures and Algorithms in Java* and *Data Structures and Algorithms in C++*.

Algorithms - M H Alsuwaiyel 1999-08-30

Problem solving is an essential part of every scientific discipline. It has two components: (1) problem identification and formulation, and (2) solution of the formulated problem. One can solve a problem on its own using ad hoc techniques or follow those techniques that have produced efficient solutions to similar problems. This requires the understanding of various algorithm design techniques, how and when to use them to formulate solutions and the context appropriate for each of them. This book advocates the study of algorithm design techniques by presenting most of the useful algorithm design techniques and illustrating them through numerous examples. Contents: Basic Concepts and Introduction to Algorithms: Basic Concepts in Algorithmic Analysis Mathematical Preliminaries Data Structures Heaps and the Disjoint Sets Data Structures Techniques Based on Recursion: Induction Divide and Conquer Dynamic Programming First-Cut Techniques: The Greedy Approach Graph Traversal Complexity of Problems: NP-Complete Problems Introduction to Computational Complexity Lower Bounds Coping with Hardness: Backtracking Randomized Algorithms Approximation Algorithms Iterative Improvement for Domain-Specific Problems: Network Flow Matching Techniques in Computational Geometry: Geometric Sweeping Voronoi Diagrams Readership: Senior undergraduates, graduate students and professionals in software development. Keywords: *Major Challenges Facing Higher Education in the Arab World: Quality Assurance and Relevance* - Adnan Badran 2019-03-25

This book focuses on two crucial issues that need to be addressed as a matter of urgency by universities in the Arab region, namely (a) conducting independent assessments of the quality of their teaching, research, administration, governance, and planning; and (b) determining the relevance of their teaching, research, and societal impacts. Although well-established around the world in manufacturing industries and private-sector service industries, including the research and commercialisation arms of the major universities and research institutes, it is only in recent years that quality-assurance (QA) assessments have started to be applied to most aspects education. Several Arab universities are adopting various forms of QA but some variants are little more than bureaucratic "box-ticking" exercises with minimal commitment by staff to the ultimate aim of continuing self-improvement. This book will be of interest to senior management at faculty and departmental level and above in all Arab universities specifically, and more generally in Islamic institutions of higher education. Senior management in other universities, especially in the developing world will benefit from its analyses and recommendations.

Bulletin of Courses - Applied Statistics Training Institute (U.S.) 1978

Business Words You Should Know - H. Dean McKay 2007-12-01

"Do you know what Accounting Noise is? How about Illiquid? Bricks and Clicks? Any idea what GAAP, LBO, RFP, or SOW stand for? Let's face it: You can't survive the corporate jungle today unless you speak the language. It's time to learn! With this easy-to-use, easy-to-understand guide, you will: Learn key business vocabulary and how to use it confidently Be able to reference critical terms from all areas of business Locate more than 1,000 clear definitions Set up in dictionary style, *Business Words You Should Know* features not only definitions, but also offers sample sentences and similar terms for each entry, as well as lists of acronyms and common business concepts. Whether you're looking for a job or are already in the thick of today's challenge business environment, you'll speak the language of the pros in no time!

Mathematics for Economics - Michael Hoy 2001

This text offers a presentation of the mathematics required to tackle problems in economic analysis. After a review of the fundamentals of sets, numbers, and functions, it covers limits and continuity, the calculus of functions of one variable, linear algebra, multivariate calculus, and

dynamics.

Engineering Fluid Mechanics - John A. Roberson 1993-01-01

This comprehensive introduction to the field of fluid mechanics does not restrict its emphasis to a particular discipline. The first part of the book introduces basic principles such as pressure variation, the momentum principle, and energy equations. The second part uses these principles in general applications. This edition presents expanded coverage of civil engineering topics. It continues to follow the control-volume approach established in earlier editions. It also includes almost all steps in the derivations, along with complete word descriptions, and rigorous and clear derivation of equations.

Teaching Engineering, Second Edition - Phillip C. Wankat 2015-01-15

The majority of professors have never had a formal course in education, and the most common method for learning how to teach is on-the-job training. This represents a challenge for disciplines with ever more complex subject matter, and a lost opportunity when new active learning approaches to education are yielding dramatic improvements in student learning and retention. This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format useful for both new and experienced teachers. It is organized to start with specific, practical teaching applications and then leads to psychological and educational theories. The "practical orientation" section explains how to develop objectives and then use them to enhance student learning, and the "theoretical orientation" section discusses the theoretical basis for learning/teaching and its impact on students. Written mainly for PhD students and professors in all areas of engineering, the book may be used as a text for graduate-level classes and professional workshops or by professionals who wish to read it on their own. Although the focus is engineering education, most of this book will be useful to teachers in other disciplines. Teaching is a complex human activity, so it is impossible to develop a formula that guarantees it will be excellent. However, the methods in this book will help all professors become good teachers while spending less time preparing for the classroom. This is a new edition of the well-received volume published by McGraw-Hill in 1993. It includes an entirely revised section on the Accreditation Board for Engineering and Technology (ABET) and new sections on the characteristics of great teachers, different active learning methods, the application of technology in the classroom (from clickers to intelligent tutorial systems), and how people learn.

General Physics Multiple-Choice Questions - Abdulaziz Aljalal 2011-09-13

This book is a collection of 954 multiple-choice questions in waves, thermodynamics, electricity, and magnetism. These questions have been given, over couple of years, to the students of General Physics II course (Phys102) at King Fahd University of Petroleum and Minerals. They are organized according to the sections of Phys102 textbook: *Fundamental of Physics* by Halliday, Resnick and Walker, 6th edition. This collection might be very helpful for students preparing for exams in Phys102 or similar courses. We advise students strongly to study and understand the course material very well before attempting practicing some of these questions. Instructors might also find this book a valuable source for questions that can be used in examples or tests. The statistics provided with some of the questions might be very valuable in comparing performances. □□□□□ □□□□□□□□

Principles Of Wireless Networks, 1/e - Kaveh Pahlavan 2002

An Introduction to Numerical Methods and Analysis - James F. Epperson 2013-06-06

Praise for the First Edition ". . . outstandingly appealing with regard to its style, contents, considerations of requirements of practice, choice of examples, and exercises." —Zentrablatt Math ". . . carefully structured with many detailed worked examples . . ." —The Mathematical Gazette ". . . an up-to-date and user-friendly account . . ." —Mathematika *An Introduction to Numerical Methods and Analysis* addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to

challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis.

Understanding Linux Network Internals - Christian Benvenuti 2006
Benvenuti describes the relationship between the Internet's TCP/IP implementation and the Linux Kernel so that programmers and advanced administrators can modify and fine-tune their network environment.

The Saudi Arabian Economy - Mohamed A. Ramady 2010-09-05
The Saudi Arabian economy has changed almost beyond recognition since the oil boom days of the 1980s, and the Kingdom itself has changed too economically, socially, and demographically. In the second edition of *The Saudi Arabian Economy*, Mohamed Ramady uses several overlapping themes to establish and develop a framework for studying the fundamental challenges to the Saudi economy. Particular attention is paid to the benefits of short-term planning and long-term diversification intended to shield the economy from potentially de-stabilizing oil price fluctuations and the pace and diversity of domestic reforms. The author examines the core strengths and evolution of various financial institutions and the Saudi stock market in the face of globalization, before analyzing the private sector in detail. Topics discussed include:

- The hydrocarbon and minerals sector, including the emergence of the competitive petrochemical sector
- The impact of small and medium sized businesses and the evolving role of "family" businesses
- The growing role of women in the Saudi economy
- The role of privatization and FDI as engines of change and the position of public-private-partnerships
- The establishment of a foundation for a knowledge-based economy

Finally, the author offers an analysis of the key challenges facing the Saudi economy, paying particular attention to the potential costs and benefits of globalization, and membership in the WTO. Employment, education, economic and social stability, and Saudi Arabia's place in the Gulf Cooperation Council, as well as Saudi Arabia's evolving strategic economic relations with China and other countries are offered as keys to the consensus building needed to ensure the Kingdom's healthy economic future.

AI Algorithms, Data Structures, and Idioms in Prolog, Lisp, and Java - George F. Luger 2009

Prolog Programming for Artificial Intelligence - Ivan Bratko 1990
The book uses Edinburgh syntax.

MIPS Assembly Language Programming - Robert L. Britton 2004
Users of this book will gain an understanding of the fundamental concepts of contemporary computer architecture, starting with a Reduced Instruction Set Computer (RISC). An understanding of computer architecture needs to begin with the basics of modern computer organization. The MIPS architecture embodies the fundamental design principles of all contemporary RISC architectures. This book provides an understanding of how the functional components of modern computers are put together and how a computer works at the machine-language level. Well-written and clearly organized, this book covers the basics of MIPS architecture, including algorithm development, number systems, function calls, reentrant functions, memory-mapped I/O, exceptions and interrupts, and floating-point instructions. For employees in the field of systems, systems development, systems analysis, and systems maintenance.

From Kamptee to Dallas - Zahiruddin Khurshid 2013-06-28

Web Text Introduction There is a general perception about the authors of autobiographies that they tell truth about other people while they need to tell truth about themselves. I have tried to be objective throughout my book and highlighted my failures and mistakes too. The present book is an account of my life that began on February 8, 1947, when I was born in the Sarpanch Mohammad Khurshid Haq family in a small town on the banks of the river Kanhan known as Kamptee in India. Sarpanch is a title used for the head of Panchayat. The title remained in our family for three generations. After my father died, Anis bhajan (elder brother) would have become the next sarpanch, but he had already migrated to Pakistan in 1947 and later we all left. I take great pride to be part of the Khurshid family, which has its roots in Kamptee but now known internationally through the contributions of several family members not only in library and information science but also in physics, business administration, computer engineering, medicine, and biology. During my sixty-six years of life, I migrated or relocated to four different countries and benefitted

from their rich cultures. When I look back into the history, I find the following four distinct periods, each representing the years that I spent in one country before migration or relocation to another: 1947-1964, India 1964-1974, Pakistan 1974-2011, Saudi Arabia 2011-present, United States The culture, social system, history, tradition, arts, language, literature, education system, and others will definitely influence anybody who has spent ten years or more in a country. Some may adopt a particular part of the local culture quickly, such as clothing, language, food, and so on. It is very common to see nurses from the Philippines learn Arabic in a few months and start talking to Saudi patients or visitors in Arabic with fluency because of the demand of their jobs. I feel sorry that I cannot speak Arabic as good as those Asian workers speak. However, their languages and scripts are completely different from Arabic. Now, one can understand that having lived in three countries for ten years or more, I have enriched my knowledge and skills, and enhanced other capabilities as information professional. I believe in the principle of give and take. I have benefitted from world knowledge all my life, now it is my turn to give something to the seekers of knowledge in return. Life is not about just take, take, and take; it is about both give and take. I find writing about myself as the most difficult job. During my professional career, I have worked with so many bosses, including deans, directors, and heads of departments. Before they left KFUPM or went back to their departments on the completion of their term, I requested recommendation letters from each one of them. Except my American bosses, all Saudi bosses asked me to first prepare a draft and show it to them so that they could make any changes, if needed. I had to be a little modest in preparing those drafts. I always felt that if the bosses had written those letters themselves, they would have used more superlatives for me. Therefore, I am already feeling a little uncomfortable writing my own biography. I will try to make this volume an objective and fair account of my personal and professional life.

Family Roots in India
Following the uprising of 1857, which the freedom fighters lost, the British forces started taking revenge against them and the local population civilians fearing for their lives started to move out. Among those who migrated in 1859 from Azam Garh and decided to settle down at Kamptee was the family of my pardada (great-grandfather) Mohammad Abdullah. He built ten mud houses and gave them free to the settlers until they found their own accommodation. Munshi Mohammed Saeed, my dada jan (grandfather), was born on April 30, 1875, in Kamptee. He is known more as a poet than for any other things. He used to publ

Deep Learning with Python - Francois Chollet 2017-11-30

Summary Deep Learning with Python introduces the field of deep learning using the Python language and the powerful Keras library. Written by Keras creator and Google AI researcher François Chollet, this book builds your understanding through intuitive explanations and practical examples. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Machine learning has made remarkable progress in recent years. We went from near-unusable speech and image recognition, to near-human accuracy. We went from machines that couldn't beat a serious Go player, to defeating a world champion. Behind this progress is deep learning—a combination of engineering advances, best practices, and theory that enables a wealth of previously impossible smart applications. About the Book Deep Learning with Python introduces the field of deep learning using the Python language and the powerful Keras library. Written by Keras creator and Google AI researcher François Chollet, this book builds your understanding through intuitive explanations and practical examples. You'll explore challenging concepts and practice with applications in computer vision, natural-language processing, and generative models. By the time you finish, you'll have the knowledge and hands-on skills to apply deep learning in your own projects. What's Inside Deep learning from first principles Setting up your own deep-learning environment Image-classification models Deep learning for text and sequences Neural style transfer, text generation, and image generation About the Reader Readers need intermediate Python skills. No previous experience with Keras, TensorFlow, or machine learning is required. About the Author François Chollet works on deep learning at Google in Mountain View, CA. He is the creator of the Keras deep-learning library, as well as a contributor to the TensorFlow machine-learning framework. He also does deep-learning research, with a focus on computer vision and the application of machine learning to formal reasoning. His papers have been published at major conferences in the field, including the Conference on Computer Vision and Pattern Recognition (CVPR), the Conference and Workshop on

Neural Information Processing Systems (NIPS), the International Conference on Learning Representations (ICLR), and others. Table of Contents PART 1 - FUNDAMENTALS OF DEEP LEARNING What is deep learning? Before we begin: the mathematical building blocks of neural networks Getting started with neural networks Fundamentals of machine learning PART 2 - DEEP LEARNING IN PRACTICE Deep learning for computer vision Deep learning for text and sequences Advanced deep-learning best practices Generative deep learning Conclusions appendix A - Installing Keras and its dependencies on Ubuntu appendix B - Running Jupyter notebooks on an EC2 GPU instance

Managing Information Security - John R. Vacca 2013-08-21

Managing Information Security offers focused coverage of how to protect mission critical systems, and how to deploy security management systems, IT security, ID management, intrusion detection and prevention systems, computer forensics, network forensics, firewalls, penetration testing, vulnerability assessment, and more. It offers in-depth coverage of the current technology and practice as it relates to information security management solutions. Individual chapters are authored by leading experts in the field and address the immediate and long-term challenges in the authors' respective areas of expertise. Chapters contributed by leaders in the field covering foundational and practical aspects of information security management, allowing the reader to develop a new level of technical expertise found nowhere else Comprehensive coverage by leading experts allows the reader to put current technologies to work Presents methods of analysis and problem solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

Economic Analysis of Oil and Gas Engineering Operations -

Hussein K. Abdel-Aal 2021-02-26

Engineers seek solutions to problems, and the economic viability of each potential solution is normally considered along with the technical merits. This is typically true for the petroleum sector, which includes the global processes of exploration, production, refining, and transportation. Decisions on an investment in any oil or gas field development are made on the basis of its value, which is judged by a combination of a number of economic indicators. Economic Analysis of Oil and Gas Engineering Operations focuses on economic treatment of petroleum engineering operations and serves as a helpful resource for making practical and profitable decisions in oil and gas field development. Reflects major changes over the past decade or so in the oil and gas industry Provides thorough coverage of the use of economic analysis techniques in decision-making in petroleum-related projects Features real-world cases and applications of economic analysis of various engineering problems encountered in petroleum operations Includes principles applicable to

other engineering disciplines This work will be of value to practicing engineers and industry professionals, managers, and executives working in the petroleum industry who have the responsibility of planning and decision-making, as well as advanced students in petroleum and chemical engineering studying engineering economics, petroleum economics and policy, project evaluation, and plant design.

Computer Viruses and Malware - John Aycock 2006-09-19

Our Internet-connected society increasingly relies on computers. As a result, attacks on computers from malicious software have never been a bigger concern. Computer Viruses and Malware draws together hundreds of sources to provide an unprecedented view of malicious software and its countermeasures. This book discusses both the technical and human factors involved in computer viruses, worms, and anti-virus software. It also looks at the application of malicious software to computer crime and information warfare. Computer Viruses and Malware is designed for a professional audience composed of researchers and practitioners in industry. This book is also suitable as a secondary text for advanced-level students in computer science.

Petroleum Economics and Engineering - M.A. Al-Sahlawi 1992-01-22

Revised and updated to reflect major changes in the field, this second edition presents an integrated and balanced view of current attitudes and practices used in sound economic decision-making for engineering problems encountered in the oil industry. The volume contains many problem-solving examples demonstrating how economic analyses are applied to different facets of the oil industry.; Discussion progresses from an introduction to the industry, through principles and techniques of engineering economics, to the application of economic methods to the oil industry. It provides information on the types of crude oils, their finished products and resources of natural gas, and also summarizes worldwide oil production and consumption data.

Managing Quality - S. Thomas Foster 2006-05

This volume is a comprehensive introduction to the field of quality management, integrating the emerging body of knowledge in the areas of quality theory, quality assurance, and quality control. The author's practical approach provides examples, allowing readers to participate in and manage quality improvement in manufacturing, government, and service organizations. The volume examines differing perspectives on quality, quality theory, global quality and quality standards, strategic quality planning, the voice of the customer and the market, quality in product and process design, designing quality services, managing supplier quality in the supply chain, the tools of quality and implementing quality, statistically based quality improvement for variables, six sigma management and tools, implementing and validating the quality system. For quality control managers and other interested in greater quality management