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 Engineering Physics Volume I (For 1st Year of JNTU, Kakinada)
 Decisions of the Railroad Commission of the State of California
 Lecture Notes On Engineering Human Thermal Comfort
 Lecture Notes in Data Engineering, Computational Intelligence, and Decision Making
 Engineering News and American Contract Journal
 Knowledge-Based Intelligent Information and Engineering Systems
 The Engineer
 Notes on Rankine's Applied Mechanics--part I, and Rankine's Civil Engineering--parts II & III.
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 Lecture Notes in Engineering
 Lecture Notes on Empirical Software Engineering
 Engineering News and American Railway Journal
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 Lecture Notes in Real-Time Intelligent Systems
 Applied Mathematics
 Second Report of the Royal Commissioners on Technical Instruction: Notes on technical education in Russia
 Notes on Rankine's Applied Mechanics--part I, and Rankine's Civil Engineering--parts II and III
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New Perspectives on Enterprise Decision-Making Applying Artificial Intelligence Techniques

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 This book is part of a three-volume set that constitutes the refereed proceedings of the 11th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2007. Coverage in this first volume includes artificial neural networks and connectionists systems, fuzzy and neuro-fuzzy systems, evolutionary computation, machine learning and classical AI, agent systems, and information engineering and applications in ubiquitous computing environments.

[Transactions of the ASAE](#). Springer Nature

This book reports on advanced theories and methods in three related fields of research: applied physics, system science and computers. The first part covers applied physics topics, such as lasers and accelerators; fluid dynamics, optics and spectroscopy, among others. It also addresses astrophysics, security, and medical and biological physics. The second part focuses on advances in computers, such as those in the area of social networks, games, internet of things, deep learning models and more. The third part is especially related to systems science, covering swarm intelligence, smart cities, complexity and more. Advances in and application of computer communication, artificial intelligence, data analysis, simulation and modeling are also addressed. The book offers a collection of contributions presented at the 3rd International Conference on Applied Physics, System Science and Computers (APSAC), held in Dubrovnik, Croatia on September 26-28, 2018. Besides presenting new methods, it is also intended to promote collaborations between different communities working on related topics at the interface between physics, computer science and engineering.

Engineering Physics Volume I (For 1st Year of JNTU, Kakinada)

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[Decisions of the Railroad Commission of the State of California](#)
 Waveland Press

This book presents different techniques and methodologies that used to help improve the decision-making process and increase the likelihood of success in sector as follows: agriculture, financial services, logistics, energy services, health and others. This book

collects and consolidates innovative and high-quality research contributions regarding the implementation techniques and methodologies applied in different industrial sectors. The scope is to disseminate current trends knowledge in the implementation of artificial intelligence techniques and methodologies in different fields as follows: supply chain, business intelligence, e-commerce, social media and others. The book contents are useful for Ph.D., Ph.D. students, master and undergraduate students, and professional and students in industrial engineering, computer science, information systems, data analytics and others.
Lecture Notes On Engineering Human Thermal Comfort Springer
 This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

Lecture Notes in Data Engineering, Computational Intelligence, and Decision Making

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Engineering News and American Contract Journal

CHANGDER OUTLINE

Human thermal comfort, namely in the areas of heating, ventilation and air conditioning (collectively known as 'HVAC'), is ubiquitous wherever human habitation may be found. Today, a large portion of the developed world's current energy demands are used to artificially keep the temperatures of our environments comfortable. It is therefore imperative for everyone, decision-makers and engineers alike, involved with the future of energy to be appropriately acquainted with HVAC. Lecture Notes on Engineering Human Thermal Comfort explains the quintessence of engineering human thermal comfort through straight-forward

writing designed to help students better comprehend the materials presented. Illustrative figures, anecdotal banter, and ironical analogies interject the necessary technical humdrum to provide timeous stimuli in the midst of arduous technical details. This book is primarily for senior undergraduate engineering students interested in engineering human thermal comfort. It invokes some undergraduate knowledge of thermodynamics, heat transfer, and fluid mechanics as needed, to enable students to appreciate thermal comfort engineering without the need to seek out other textbooks.

[Knowledge-Based Intelligent Information and Engineering Systems](#) Springer Nature

This book contains of 39 scientific papers which include the results of research regarding the current directions in the fields of data mining, machine learning and decision-making. This book is devoted to current problems of artificial and computational intelligence including decision-making systems. Collecting, analysis and processing information are the current directions of modern computer science. Development of new modern information and computer technologies for data analysis and processing in various fields of data mining and machine learning create the conditions for increasing effectiveness of the information processing by both the decrease of time and the increase of accuracy of the data processing. The papers are divided in terms of their topic into three sections. The first section "Analysis and Modeling of Hybrid Systems and Processes" contains of 11 papers, and the second section "Theoretical and Applied Aspects of Decision-Making Systems" contains of 11 ones too. There are 17 papers in the third section "Data Engineering, Computational Intelligence and Inductive Modeling". The book is focused to scientists and developers in the fields of data mining, machine learning and decision-making systems.

[The Engineer](#) Springer

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Notes on Rankine's Applied Mechanics--part I, and Rankine's Civil Engineering--parts II & III.

Applied Finite Element Methods
 Interference | Diffraction | Polarization | Crystal Structures | Crystal Planes And X-Ray Diffraction | Laser | Fiber optics | Non-Destructive Testing Using Ultrasonics | Question Papers | Appendix
[Computerworld](#) CRC Press

Less than 1% of the Earth's water is available for human use, the average family uses 400 gallons of water daily, and expected population growth means an increase in water use. The study of

hydrology—how water behaves as it moves through the water cycle—is vital to reducing strains on our water supply and infrastructure. Written for those who want to understand hydrologic principles without a background in mathematics, Manning's basic water science text begins with the physical and chemical attributes that make water a unique substance and proceeds with a step-by-step discussion of the water cycle. Scientific principles are illustrated by real-world examples, while "investigations" sections offer practical suggestions for making measurements and/or interpretations of hydrological variables in the local environment and for applying principles discussed in the text. This well-structured, reader-friendly text benefits not only students in elementary hydrology courses, but also those studying broader areas of natural resources, ecology, geography, and urban planning.

Lecture Notes in Engineering S. Chand Publishing

This book includes my lecture notes for electrical machines course. The book is divided to different learning parts · Part 1- Apply basic physical concepts to explain the operation and solve problems related to electrical machines. · Part 2- Explain the principles underlying the performance of three-phase electrical machines. · Part 3- Analyse, operate and test three-phase induction machines. · Part 4- Investigate the performance, design, operation, and testing of the three-phase synchronous machine. Part1: Apply basic physical concepts to explain the operation and solve problems related to electrical machines. Describe the construction of simple magnetic circuits, both with and without an air gap. Explain the basic laws which govern the electrical machine operation, such as Faraday's Law, Ampere-Biot-Savart's Law, and Lenz's Law. Apply Faraday's Law of electromagnetic induction, Ampere-Biot-Savart's Law, and Lenz's Law to solve for induced voltage and currents in relation to simple magnetic circuits with movable parts. Illustrate the principle of the electromechanical energy conversion in magnetic circuits with movable parts. Part 2: Explain the principles underlying the performance of three-phase electrical machines. Compare and contrast concentric and distributed windings in three-phase electrical machines. Identify the advantages of distributed windings applied to three-phase machines. Explain how the pulsating and rotating magnetic fields are produced in distributed windings. Calculate the synchronous speed of a machine based on its number of poles and frequency of the supply. Describe the process of torque production in multi-phase machines. Part 3: Analyse, operate and test three-phase induction machines. Calculate the slip of an induction machine given the operating and synchronous speeds. Calculate and compare between different torques of a three-phase induction machine, such as the locked rotor or starting torque, pull-up torque, breakdown torque, full-load torque or braking torque. Develop and manipulate the equivalent circuit model for the three-phase induction machine. Analyse, and test experimentally, the torque-speed and current-speed characteristics of induction machines. and discuss the effects of varying such motor parameters as rotor resistance, supply voltage and supply frequency on motor torque-speed characteristics. Perform no-load and blocked rotor tests in order to determine the equivalent circuit parameters of an induction machine. Explore various techniques to start an induction motor. Identify the applications of the three-phase induction machines in industry and utility. Classify the insulations implemented in electrical machines windings and identify the factors affecting them. Part4. Investigate the performance, design, operation, and testing of the three-phase synchronous machine. Describe the construction of three-phase synchronous machines, particularly

the rotor, stator windings and the rotor saliency. Develop and manipulate an equivalent circuit model for the three-phase synchronous machine. Sketch the phasor diagram of a non-salient poles synchronous machine operating at various modes operation, such as no-load operation, motor operation, and generator operation. Investigate the influence of the rotor saliency on machine performance. Perform open and short circuit tests in order to determine the equivalent circuit parameters of a synchronous machine. Identify the applications of the three-phase synchronous machines in industry and utility List and explain the conditions of parallel operation of a group of synchronous generators. Evaluate the performance of the synchronous condenser and describe the power flow control between a synchronous condenser and the utility in both modes: over and under excited. Explain the principles of controlling the output voltage and frequency of a synchronous generator.

Lecture Notes on Empirical Software Engineering American Mathematical Soc.

The objectives of this monograph are to present some topics from the theory of monotone operators and nonlinear semigroup theory which are directly applicable to the existence and uniqueness theory of initial-boundary-value problems for partial differential equations and to construct such operators as realizations of those problems in appropriate function spaces. A highlight of this presentation is the large number and variety of examples introduced to illustrate the connection between the theory of nonlinear operators and partial differential equations. These include primarily semilinear or quasilinear equations of elliptic or of parabolic type, degenerate cases with change of type, related systems and variational inequalities, and spatial boundary conditions of the usual Dirichlet, Neumann, Robin or dynamic type. The discussions of evolution equations include the usual initial-value problems as well as periodic or more general nonlocal constraints, history-value problems, those which may change type due to a possibly vanishing coefficient of the time derivative, and other implicit evolution equations or systems including hysteresis models. The scalar conservation law and semilinear wave equations are briefly mentioned, and hyperbolic systems arising from vibrations of elastic-plastic rods are developed. The origins of a representative sample of such problems are given in the appendix.

Engineering News and American Railway Journal Springer

Empirical verification of knowledge is one of the foundations for developing any discipline. As far as software construction is concerned, the empirically verified knowledge is not only sparse but also not very widely disseminated among developers and researchers. This book aims to spread the idea of the importance of empirical knowledge in software development from a highly practical viewpoint. It has two goals: (1) Define the body of empirically validated knowledge in software development so as to advise practitioners on what methods or techniques have been empirically analysed and what the results were; (2) as empirical tests have traditionally been carried out by universities or research centres, propose techniques applicable by industry to check on the software development technologies they use.

Computerworld World Scientific

Vols. 1-2, 4- include committee reports on engineering schools, professional recognition, professional training, student selection and guidance.

Lecture Notes in Real-Time Intelligent Systems Springer Science & Business Media

Impedance Spectroscopy is a powerful measurement method used in many application fields such as electrochemistry, material science, biology and medicine, semiconductor industry and

sensors. The International Workshop on Impedance Spectroscopy is an international workshop addressing fundamentals and applications of impedance spectroscopy. This book

Applied Mathematics World Scientific

Applied Finite Element Methods Createspace Independent Publishing Platform

Second Report of the Royal Commissioners on Technical Instruction: Notes on technical education in Russia Springer

Intelligent computing refers greatly to artificial intelligence with the aim at making computer to act as a human. This newly developed area of real-time intelligent computing integrates the aspect of dynamic environments with the human intelligence. This book presents a comprehensive practical and easy to read account which describes current state-of-the art in designing and implementing real-time intelligent computing to robotics, alert systems, IoT, remote access control, multi-agent systems, networking, mobile smart systems, crowd sourcing, broadband systems, cloud computing, streaming data and many other applications areas. The solutions discussed in this book will encourage the researchers and IT professional to put the methods into their practice.

Notes on Rankine's Applied Mechanics--part I, and Rankine's Civil Engineering--parts II and III Routledge

This volume is a textbook for a year-long graduate level course in All research universities have applied mathematics for scientists and engineers. such a course, which could be taught in different departments, such as mathematics, physics, or engineering. I volunteered to teach this course when I realized that my own research students did not learn much in this course at my university. Then I learned that the available textbooks were too introductory. While teaching this course without an assigned text, I wrote up my lecture notes and gave them to the students. This textbook is a result of that endeavor. When I took this course many, many, years ago, the primary references were the two volumes of P. M. Morse and H. Feshbach, *Methods of Theoretical Physics* (McGraw-Hill, 1953). The present text returns the contents to a similar level, although the syllabus is quite different than given in this venerable pair of books.

Applied Engineering Mechanics Dr. Hidaia Mahmood Alassouli

The primary purpose of this work is to serve as lecture notes for a first university course on the finite element method. The target student is a first-year graduate student in engineering or engineering mechanics. Senior undergraduate students may also find the material accessible. A secondary purpose is to serve as a desktop reference and learning tool for practicing engineers. Chapter 1 introduces basic concepts and terminology. Chapter 2 is focused on one-dimensional finite element analysis in engineering mechanics: truss and bar elements. Chapter 3 considers two- and three-dimensional problems involving beam and frame elements. Chapter 4 addresses planar problems in continuum elasticity and heat transfer. Chapter 5 covers axisymmetric analysis of static problems in the same subjects. Chapter 6 describes dynamic or time-dependent analysis. Each main chapter besides the first contains example problems solved analytically or numerically via use of the ANSYS software package. This publication emerged out of lecture notes used in a one-semester course on Applied Finite Element Methods at the A. James Clark School of Engineering at the University of Maryland, College Park, Maryland, USA. Content consists of course notes, computer examples, and problem sets converted to manuscript format. As such, the presentation in much of the book is informal, and figures, while adequate for the current purpose, have not been professionally rendered.

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