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8A2 - CUEVAS BALDWIN

Many books on Database Management Systems (DBMS) are available in the market, they are incomplete very formal and dry. My attempt is to make DBMS very simple so that a student feels as if the teacher is sitting behind him and guiding him. This text is bolstered with many examples and Case Studies. In this book, the experiments are also included which are to be performed in DBMS lab. Every effort has been made to alleviate the treatment of the book for easy flow of understanding of the students as well as the professors alike. This textbook of DBMS for all graduate and post-graduate programmes of Delhi University, GGSIPU, Rajiv Gandhi Technical University, UPTU, WBTU, BPUT, PTU and so on. The salient features of this book are: - 1. Multiple Choice Questions 2. Conceptual Short Questions 3. Important Points are highlighted / Bold faced. 4. Very lucid and simplified approach 5. Bolstered with numerous examples and CASE Studies 6. Experiments based on SQL incorporated. 7. DBMS Projects added Question Papers of various universities are also included.

This volume contains the proceedings of an international symposium organised by the Metallurgical Society of the Canadian Institute of Mining and Metallurgy. The aims of the symposium were to discuss fundamental and practical aspects of the technology for the production of fine inorganic particles for the metals, industrial minerals and advanced ceramics sectors, to highlight particle characterization methods and developments, and to review major advances in the processing and extractive metallurgy of finely-sized minerals. 96 conference papers by authors from 19 countries addressed such topics as particle morphology and size analysis, physical and chemical methods for producing fine particles, processing of minerals using gravity, magnetic and electrostatic separation, flotation and flocculation, phase separation involving

fine particles, and the hydrometallurgy and pyroprocessing of fine particles. This book will be of interest to mineral processing scientists and engineers, ceramicists, extractive metallurgists and chemical engineers, who are faced with the increasing significance of inorganic fine particles either as valuable products or as materials to be treated in mineral processing systems.

This textbook has been designed to meet the needs of B.Sc. First Semester students of Mathematics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020. A methodical text, which mirrors the flow of the units of the syllabus, has been created with a focus on developing mathematical skills in both Differential and Integral Calculus and enables the reader to possess an in-depth knowledge of the subjects. Apart from this, topics such as Convergence and Divergence of Series, Successive Differentiation, Partial Differentiation, Riemann Integral: Fundamental Theorems of Integral Calculus, Vector Differentiation and Integration have been well-explained.

This book, in its third edition, continues to focus on the basics of civil engineering and engineering mechanics to provide students with a balanced and cohesive study of the two areas (as needed by them in the beginning of their engineering education). A basic undergraduate textbook for the first-year students of all branches of engineering, this book is specifically designed to conform to the syllabus of Visvesvaraya Technological University (VTU). Imparting the basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings, roads, highways, dams and bridges, the third edition covers the engineering mechanics portion in eleven chapters. Each chapter introduces the concepts to the reader, stepwise. Providing a wealth of practice examples, the book emphasizes the importance of building strong analytical skills. Practice problems, at

the end of each chapter, give students an opportunity to absorb concepts and hone their problem-solving skills. The book comes with a companion CD containing the software developed using MS-Excel, to work out the problems on Forces, Centroid, Friction and Moment of Inertia. The use of this software will enable the students to understand the concepts in a relatively better way. NEW TO THIS EDITION • Introduces a chapter on Kinematics as per the revised Civil Engineering syllabus of VTU • Updates with the latest examination Question Papers, including the one held in the month of December 2013

This book provides a comprehensive and wide-ranging introduction to the fundamental principles of mechanical engineering in a distinct and clear manner. The book is intended for a core introductory course in the area of foundations and applications of mechanical engineering, prescribed for the first-year students of all disciplines of engineering. The book develops an intuitive understanding of the basic principles of thermodynamics as well as of the principles governing the conversion of heat into energy. Numerous illustrative examples are provided to fortify these concepts throughout. The book gives the students a feel for how thermodynamics is applied in engineering practice in the areas of heat engines, steam boilers, internal combustion engines, refrigeration and air conditioning, and to devices such as turbines, pumps and compressors. The book also provides a basic understanding of mechanical design, illustrating the principles through a discussion of devices designed for the transmission of motion and power such as couplings, clutches and brakes. No book on basic mechanical engineering is complete without an introduction to materials science. The text covers the treatment of the common engineering materials, highlighting their properties and applications. Finally, the role of lubrication and lubricants in reducing the wear and tear of parts in mechanical systems, is lucidly explained in the

concluding chapter. The text features several fully worked-out examples, a fairly large number of numerical problems with answers, end-of-chapter review questions and multiple choice questions, which all enhance the value of the text to the students. Besides the students studying for an engineering degree, this book is also suitable for study by the students of AMIE and the students of diploma level courses.

Term book

Engineering Mathematics

B.E./B.Tech. Students of Second Semester of MDU, Rohtak and Kurushetra University, Kurushetra.

The importance of transformers and generators is well known in the various engineering fields. The book provides comprehensive coverage of the various types of transformers, d.c. generators and synchronous generators (alternators). The book starts with the brief review of single phase transformer. It continues to discuss no load and on load performance of transformers, phasor diagrams, equivalent circuit, voltage regulation and all day efficiency of transformer. The detailed discussion of open and short circuit tests and predetermination of regulation and efficiency is also included in the book. The chapter on three phase transformer provides the detailed discussion of construction, three phase transformer connections and phasor groups. The book also explains parallel operation of transformers, tap changing transformer, auto-transformers, cooling of transformers and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics and applications. The chapters on synchronous generators starts with the explanation of basics of synchronous generators including construction, winding details, e.m.f. equation and effect of harmonics on induced e.m.f. The book then explains the concept of armature reaction, phasor diagrams, regulation and various methods of finding the regulation of alternator. Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book. The book further explains the concept of synchronization of alternators, two reaction theory and parallel operation of alternators. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well

supported with necessary illustrations, self explanatory diagrams and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Mathematical Physics is a branch of mathematical analysis that emphasizes on the tools and techniques of a particular use to physicists as well as engineers. It focuses on Vector Spaces, Matrix Algebra, Differential Equations, Integral Equations, Integral Transforms, Infinite Series and Complex Variables.

This comprehensive book, now in its Fifth Edition, continues to discuss the principles and concept of Database Management System (DBMS). It introduces the students to the different kinds of database management systems and explains in detail the implementation of DBMS. The book provides practical examples and case studies for better understanding of concepts and also incorporates the experiments to be performed in the DBMS lab. A competitive pedagogy includes Summary, MCQs, Conceptual Short Questions (with answers) and Exercise Questions.

Various measures of information are discussed in first chapter. Information rate, entropy and mark off models are presented. Second and third chapter deals with source coding. Shannon's encoding algorithm, discrete communication channels, mutual information, Shannon's first theorem are also presented. Huffman coding and Shannon-Fano coding is also discussed. Continuous channels are discussed in fourth chapter. Channel coding theorem and channel capacity theorems are also presented. Block codes are discussed in chapter fifth, sixth and seventh. Linear block codes, Hamming codes, syndrome decoding is presented in detail. Structure and properties of cyclic codes, encoding and syndrome decoding for cyclic codes is also discussed. Additional cyclic codes such as RS codes, Golay codes, burst error correction is also discussed. Last chapter presents convolutional codes. Time domain, transform domain approach, code tree, code trellis, state diagram, Viterbi decoding is discussed in detail.

Market_Desc: Primary Market· VTU: 06ME71 Control Engineering 7th Sem/ EC/TC/EE/IT/BM/ML 06ES43 4th Sem· JNTU: ECE/EEE Control Systems 4th Sem· Anna: ECE/EEE PTEC 9254/PTEE 9201 Control Systems 3rd Sem· UPTU (ME)EEE-409 Electrical Machines & Automatic Control 4th Sem/ ECE/ETE/EEE EEC503/EEE502 Control Systems 5th Sem· Mumbai: ETE Principles of Control System 5th

Sem· BPUT ETE/EEE/ECE CPEE 5302 Control System Engineering 6th Sem· WBUT EE-503 Control System 5th Sem; EC-513 Control System 5th Sem· RGPV EC-402 Control Systems, 4th Sem· PTU ECE/EIE/EEE IC-204 Linear Control System 4th Sem· GNDU ECE EC-T-223 Linear Control System 4th Sem· Secondary Market· BPUT:CPME 6403 Mechanical Measurement and Control, 7th sem· RGPV: ME 8302 Mechatronics, 8th Sem elective· Anna: PTME9035 measurement and controls, 8th Sem· UPTU: TME-028 Automatic Controls, Elective 8th Sem· Mumbai: Mechatronics, 6th Sem· WBUT: ME 602 Mechatronics and Modern Control, 6th Sem Special Features: § The book provides clear exposure to the principles of control system design and analysis techniques using frequency and time domain analysis.§ Explains the important topics of PID controllers and tuning procedures.§ Includes state space methods for analysis of control system.§ Presents necessary mathematical topics such as Laplace transforms at relevant places.§ Contains detailed artwork capturing circuit diagrams, signal flow graphs, block diagrams and other important topics.§ Presents stability analysis using Bode plots, Nyquist diagrams and Root locus techniques.§ Each chapter contains a wide variety of solved problems with stepwise solutions.§ Appendices present the use of MATLAB programs for control system design and analysis, and basic operations of matrices.§ Model question papers contain questions from various university question papers at the end of the book.§ Excellent pedagogy includesü 520+ Figures and tablesü 200+ Solved problemsü 90+ Objective questionsü 100+ Review questionsü 70+ Numerical problems About The Book: Control Engineering is the field in which control theory is applied to design systems to produce desirable outputs. It essays the role of an incubator of emerging technologies. It has very broad applications ranging from automobiles, aircrafts to home appliances, process plants, etc. This subject gains importance due to its multidisciplinary nature, and thus establishes itself as a core course among all engineering curricula. This textbook aims to develop knowledge and understanding of the principles of physical control system modeling, system design and analysis. Though the treatment of the subject is from a mechanical engineering point of view, this book covers the syllabus prescribed by various universities in India for aerospace, automobile, industrial, chemical, electrical and electronics engineering disciplines at undergraduate level.

This manual is specially written for Students who are interested in

understanding Structured Query Language and PL-SQL concepts in the Computer Engineering and Information technology field and wants to gain enhance knowledge about power of SQL Language in Relational Database Management System Development. The manual covers practical point of view in all aspects of SQL and PL/SQL including DDL, DML, DCL sublanguages, also there are practices for Views, Group by, Having Clause. All PL-SQL concepts like Condition and Loop Structures, Functions and Procedures, Cursor, Triggers, Locks are illustrated using best examples

This book "Engineering Physics" is prepared specially for I and II Semester students of B.E./B.Tech. Course of Visvesvaraya Technological University. The subject matter has been methodically and systematically developed from the fundamental experimental physics. This text book has been written keeping in mind the difficulties of the students. KEY FEATURES • Number of solved problems for practice • Comprehensive text with lucid language • Revision questions, chapter end summary and list of formulae for better recap • Model Question papers for better insight into the subject matter

This edition, representing 956 libraries and 156,449 titles, incorporates the 2nd ed. (1943) and its two supplements together with new titles and additional locations.

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Numerical Methods and Applications, NMA 2010, held in Borovets, Bulgaria, in Au-

gust 2010. The 60 revised full papers presented together with 3 invited papers were carefully reviewed and selected from numerous submissions for inclusion in this book. The papers are organized in topical sections on Monte Carlo and quasi-Monte Carlo methods, environmental modeling, grid computing and applications, meta-heuristics for optimization problems, and modeling and simulation of electrochemical processes.

Teaches students the mathematical foundations of computer science, including logic, Boolean algebra, basic graph theory, finite state machines, grammars and algorithms, and helps them understand mathematical reasoning for reading, comprehension and construction of mathematical arguments.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical

background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

For the first year students of B.E./B.Tech/B.Arch. and also useful for competitive Examinations. A number of problems are solved. New problems are included in order to expedite the learning process of students of all hues and to improve their academic performance. Each chapter divided into smaller parts and subheading are provided to make the reading a pleasant journey

This book presents select proceedings of the International Conference on Sustainable Construction and Building Materials (ICSCBM 2018), and examines a range of durable, energy-efficient, and next-generation construction and building materials produced from industrial wastes and byproducts. The topics covered include alternative, eco-friendly construction and building materials, next-generation concretes, energy efficiency in construction, and sustainability in construction project management. The book also discusses various properties and performance attributes of modern-age concretes including their durability, workability, and carbon footprint. As such, it offers a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.