

Engineering Chemistry Shivani For Rgpv Mcgean

The 60th birthday of Prof. Luczak is the reason for this book. He will be honoured for his research work during the "GfA-confernece" in March 2009. This book is the correspondig "Festschrift" for him.

This book is designed based on revised syllabus of Gujarat Technological University, Gujarat (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems

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make the book educational in nature. It shou.

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

An all-in-one reference to the major Home Area Networking, Building Automation and AMI protocols, including 802.15.4 over radio or PLC, 6LoWPAN/RPL, ZigBee 1.0 and Smart Energy 2.0, Zwave, LON, BACNet, KNX, ModBus, mBus, C.12 and DLMS/COSEM, and the new ETSI M2M system level standard. In-depth coverage of Smart-grid and EV charging use cases. This book describes the Home Area Networking, Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LoWPAN and ETSI M2M. The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine-to-machine communication for mission-critical applications, based on the next generation machine-to-machine ETSI M2M architecture. The authors demonstrate, using the example of the smartgrid use case, how the next generation utilities, by interconnecting and activating our physical environment, will be able to deliver

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more energy (notably for electric vehicles) with less impact on our natural resources. Key Features: Offers a comprehensive overview of major existing M2M and AMI protocols Covers the system aspects of large scale M2M and smart grid applications Focuses on system level architecture, interworking, and nationwide use cases Explores recent emerging technologies: 6LowPAN, ZigBee SE 2.0 and ETSI M2M, and for existing technologies covers recent developments related to interworking Relates ZigBee to the issue of smartgrid, in the more general context of carrier grade M2M applications Illustrates the benefits of the smartgrid concept based on real examples, including business cases This book will be a valuable guide for project managers working on smartgrid, M2M, telecommunications and utility projects, system engineers and developers, networking companies, and home automation companies. It will also be of use to senior academic researchers, students, and policy makers and regulators.

Water And Its Industrial Applications | Fuels And Combustion | Lubricants | Cement And Refractories| Polymers | Instrumental Techniques In Chemical Analysis | Water Analysis Techniques | Question Bank

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

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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.

My English Garden is an innovative course in English language learning, which combines principles of communicative language learning with a functional approach to grammar through task-based learning.

This textbook for the first year students of all branches of Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal(M.P.), It has been strictly according to the new syllabus of RGPV. The subject matter has been explained clearly and precisely in the simplest way. Salient features are :250 Solved ExamplesA number of exercises at the end of every chapter Multi-Choice.

This book covers the kinematics and dynamics of machinery topics. It emphasizes the

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synthesis and design aspects and the use of computer-aided engineering. A sincere attempt has been made to convey the art of the design process to students in order to prepare them to cope with real engineering problems in practice. This book provides up-to-date methods and techniques for analysis and synthesis that take full advantage of the graphics microcomputer by emphasizing design as well as analysis. In addition, it details a more complete, modern, and thorough treatment of cam design than existing texts in print on the subject. The author's website at www.designofmachinery.com has updates, the author's computer programs and the author's PowerPoint lectures exclusively for professors who adopt the book. Features Student-friendly computer programs written for the design and analysis of mechanisms and machines. Downloadable computer programs from website Unstructured, realistic design problems and solutions

This book aims to familiarize the reader with various dimensions and issues of governance in the globalized world. It is important to understand governance and its effects on administration and development in the context of a globalized environment. This textbook deals with the concepts and dimensions of governance by highlighting the major debates in the contemporary times. It emphasizes on the paradigm shift from government to governance and how the role of the state has changed over the years. Different facets of governance, such as democratic decentralization, environmental governance and role of non-state actors have been thoroughly discussed. Further, it provides insights into various good governance initiatives introduced in India, including Right to Information Act (RTI), e-governance and Citizen's Charter. Key Features - Comprehensive coverage of major concepts and critical understanding of the challenges to governance with special reference to India - Written in a lucid, jargon-free

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language for students and readers with backgrounds other than political science - All chapters aided by boxes, diagrams and tables for better understanding of concepts and included model questions for self-evaluation - Contributions from academicians and professionals from different fields of study, such as history, administrations and political science to give a wider perspective on governance

This book meets the requirements of undergraduate and postgraduate students pursuing courses in mechanical, production, electrical, metallurgical and aeronautical engineering. This self-contained text strikes a fine balance between conceptual clarity and practice problems, and focuses both on conventional graphical methods and emerging analytical approach in the treatment of subject matter. In keeping with technological advancement, the text gives detailed discussion on relatively recent areas of research such as function generation, path generation and mechanism synthesis using coupler curve, and number synthesis of kinematic chains. The text is fortified with fairly large number of solved examples and practice problems to further enhance the understanding of the otherwise complex concepts. Besides engineering students, those preparing for competitive examinations such as GATE and Indian Engineering Services (IES) will also find this book ideal for reference. KEY FEATURES ? Exhaustive treatment given to topics including gear drive and cam follower combination, analytical method of motion and conversion phenomenon. ? Simplified explanation of complex subject matter. ? Examples and exercises for clearer understanding of the concepts.

This valuable new book, Handbook of Research on Medicinal Chemistry: Innovations and Methodologies, presents some of the latest advancements in the various fields of combinatorial chemistry, drug discovery, biochemical aspects, pharmacology of medicinal agents, current

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practical problems, and nutraceuticals. The editors keep the drug molecule as the central component of the volume and aim to explain the associated features essential to exhibiting pharmacological activity. With a unique combination of chapters in biology, clinical aspects, biochemistry, synthetic chemistry, medicine and technology, the volume provides broad exposure to the essential aspect of pharmaceuticals. The volume many important aspects of medicinal chemistry, including techniques in drug discovery pharmacological aspects of natural products chemical mediators: druggable targets advances in medicinal chemistry The field of medicinal chemistry is growing at an unprecedented pace, and this volume takes an interdisciplinary approach, covering a range of new research and new practices in the field. The volume takes into account the latest therapeutic guidelines put forward by the World Health Organization and the U.S Food and Drug Administration.. Topics include: drug design drug discovery natural products and supplements and nutraceuticals pharmaceutical approaches to sexual dysfunction drug resistance parasites new natural compounds and identification of new targets stereochemistry aspects in medicinal chemistry common drug interactions in daily practices Handbook of Research on Medicinal Chemistry: Innovations and Methodologies will be a valuable addition to the bookshelves of pharmaceutical scientists and faculty as well as for industry professionals.

It is clear that the development of large software systems is an extremely complex activity, which is full of various opportunities to introduce errors. Software engineering is the discipline that provides methods to handle this complexity and enables us to produce reliable software systems with maximum productivity. An Integrated Approach to Software Engineering is different from other approaches because the various topics are not covered in isolation. A

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running case study is employed throughout the book, illustrating the different activity of software development on a single project. This work is important and instructive because it not only teaches the principles of software engineering, but also applies them to a software development project such that all aspects of development can be clearly seen on a project.

"All aspects pertaining to algorithm design and algorithm analysis have been discussed over the chapters in this book-- Design and Analysis of Algorithms"--Resource description page.

1 Elementary Concepts 2 Magnetic Circuits 3 Electromagnetic Induction 4 Single Phase Transformers 5 Electrostatics 6 A C fundamentals 7 Single Phase A C circuits 8 Three Phase A C Circuits 9 D C Circuits Appendix

This book presents the selected peer-reviewed proceedings of the International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019). The volume focuses on latest research and advances in the field of civil engineering and materials science such as design and development of new environmental materials, performance testing and verification of smart materials, performance analysis and simulation of steel structures, design and performance optimization of concrete structures, and building materials analysis. The book also covers studies in geotechnical engineering, hydraulic engineering, road and bridge engineering, building services design, engineering management, water resource engineering and renewable energy. The contents of this book will be

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useful for students, researchers and professionals working in civil engineering. Modern Surveying is unimaginable without the use of electronic equipment and information technology. Surveying with conventional systems has been completely replaced with advanced automated systems. Total Station, Global Positioning System (GPS), Remote Sensing and Geographical Information System (GIS) have all become an inextricable part of surveying. Advanced Surveying: Total Station, GIS and Remote Sensing provides a thorough working knowledge of these technologies.

The book is a collection of high-quality peer-reviewed research papers presented at International Conference on Frontiers of Intelligent Computing: Theory and applications (FICTA 2016) held at School of Computer Engineering, KIIT University, Bhubaneswar, India during 16 – 17 September 2016. The book presents theories, methodologies, new ideas, experiences and applications in all areas of intelligent computing and its applications to various engineering disciplines like computer science, electronics, electrical and mechanical engineering.

Authoritative, Up-to-Date Coverage of Airport Planning and Design Fully updated to reflect the significant changes that have occurred in the aviation industry, the new edition of this classic text offers definitive guidance on every aspect of

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planning, design, engineering, and renovating airports and terminals. Planning and Design of Airports, Fifth Edition, includes complete coverage of the latest aircraft and air traffic management technologies, passenger processing technologies, computer-based analytical and design models, new guidelines for estimating required runway lengths and pavement thicknesses, current Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) standards, and more. Widely recognized as the field's standard text, this time-tested, expertly written reference is the best and most trusted source of information on current practice, techniques, and innovations in airport planning and design. **COVERAGE INCLUDES:** Designing facilities to accommodate a wide variety of aircraft Air traffic management Airport planning studies Forecasting for future demands on airport system components Geometric design of the airfield Structural design of airport pavements Airport lighting, marking, and signage Planning and design of the terminal area Airport security planning Airport airside capacity and delay Finance strategies, including grants, bonds, and private investment Environmental planning Heliports

ENERGY CONSERVATION AND MANAGEMENT discusses in detail the global energy scenario. The thermodynamic analysis of energy has been explained. Principles of energy conservation and management have been discussed along

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with the methodology and the Economics of energy has been elaborated with concepts like life cycle costing and rate of return. Procedure and methodology of energy audits has been covered in greater detail. Also included in the book are the recent developments such as the total energy concepts and integrated energy systems. Topics such as energy storage, co-generation, waste heat recovery which are important to improve energy efficiency have been discussed in detail with case studies and examples. The challenges faced in conserving energy sources like steam and electricity have been elaborated along with the improvements in the lighting sector.

This book is meant for the first course on Surveying and Levelling of most of the universities. It covers all basic methods of surveying and levelling, applications of surveying and levelling, calculation of areas and volumes of earth work involved in the field work. Minor instruments used in the field are also explained. The author has taken care to use simple and lucid language and to explain the subject with neat sketches. A number of problems are solved to make the subject clear. Diploma and degree students of Civil Engineering, Architecture and Mining will find this book useful

The book is a compilation of best papers presented at International Conference on Recent Advancement in Computer and Communication (ICRAC 2017)

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organized by IMPLab Research and Innovation Foundation, Bhopal, India. The book covers all aspects of computers and communication techniques including pervasive computing, distributed computing, cloud computing, sensor and adhoc network, image, text and speech processing, pattern recognition and pattern analysis, digital signal processing, digital electronics, telecommunication technologies, robotics, VLSI technologies, embedded system, satellite communication, digital signal processing, and digital communication. The papers included are original research works of experts from industry, government centers and academic institutions; experienced in engineering, design and research.

Structural Analysis, or the 'Theory of Structures', is an important subject for civil engineering students who are required to analyze and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like Matrix Method and Plastic Analysis are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes – Structural Analysis I and II. Structural Analysis I deals with the basics of structural analysis, measurements of deflection, various types of deflection, loads and influence lines, etc.

Machine design is one of the important subjects in mechanical engineering and a

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thorough knowledge of the design aspects of machine elements is essential for all design engineers. Working out the design of a machine as a whole, or its components, usually involves the use of several formulae, graphs, standard tables and other relevant data. Availability of all such information in one handbook not only eliminates the unnecessary task of remembering the required formulae and equations, but also helps design engineers to solve the problems in machine design quickly and efficiently. This handbook has been prepared keeping these basics in mind. References have been made to several standard textbooks on machine design while compiling the data of this book. In the preparation of the fourth edition, most of the chapters and topics have been upgraded and improved by adding additional information on current design.

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