

Shivani Publication Engineering

Electrical and Electronic Principles and Technology
Advances in Control Instrumentation Systems
Basics of Mechanical Engineering
Performance Management of Integrated Systems and its Applications in Software Engineering
Machine Drawing
Textbook of Engineering Drawing
Emerging Research in Data Engineering Systems and Computer Communications
Engineering Drawing
Engineering Mathematics - I
Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications
Being Love
Happiness Unlimited
Impact of AI Technologies on Teaching, Learning, and Research in Higher Education
Engineering Physics
Megacities and Rapid Urbanization: Breakthroughs in Research and Practice
A Text Book of Automobile Engineering
Introduction to Engineering Materials
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A Textbook of Engineering Physics
Hydraulics and Hydraulic Machines
Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering
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Electrical and Electronic Principles and Technology

This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates.

Advances in Control Instrumentation Systems

Basics of Mechanical Engineering

Performance Management of Integrated Systems and its Applications in Software Engineering

A comprehensive overview of nanogel-based systems and their applications in nanomedicine.

Machine Drawing

A heavy backlog of gaseous, liquid, and solid pollution has resulted from a lack of development in pollution control. Because of this, a need for a collection of original research in water and wastewater treatment, industrial waste management, and soil and ground water pollution exists. Advanced Treatment Techniques for Industrial Wastewater is an innovative collection of research that covers the different aspects of environmental engineering in water and wastewater treatment processes as well as the different techniques and systems for pollution management. Highlighting a range of topics such as agriculture pollution, hazardous waste management, and sewage farming, this book is an important reference for environmental engineers, waste authorities, solid waste management companies, landfill operators, legislators, environmentalists, and academicians seeking research on waste management.

Textbook of Engineering Drawing

The capability to generate potable water from polluted sources is growing in importance as pharmaceuticals, microplastics and waste permeate our soil. Nanotechnology allows for improvements in water remediation technologies by taking advantage of the unique properties of materials at this small scale.

Emerging Research in Data Engineering Systems and Computer Communications

This text is an accessible and comprehensive guide to the principles, practices, functions and challenges of maintenance engineering and management. With a strong emphasis on basic concepts and practical techniques throughout, the book demonstrates in detail how effective technical competencies in maintenance management can be built in engineering organizations. The book thus provides students and practising engineers alike with the methodologies and tools needed to understand and implement the systems approach to maintenance management. The major goals for the text include : To provide a good understanding of different types of maintenance management systems such as breakdown, preventive, predictive, proactive. To explain benefits of planned maintenance. To explain condition-based monitoring techniques with focus on vibration monitoring, thermography, and motor condition monitoring. To stress the role of reliability engineering in maintenance with tools like Failure Mode and Effect Analysis, Root Cause Analysis, and Criticality Matrix. To explain activities of maintenance planning with focus on shutdown planning, human resources development, and tools employed for monitoring. To emphasize management functions such as procurement of spares, measurement of maintenance effectiveness, etc. To give an overview of project management tools such as PERT etc. To introduce computerized maintenance management systems. To explain the basics of hazard analysis and fault tree analysis. Review questions in each chapter, worked-out examples wherever applicable, case studies and an exclusive appendix on "Selected Questions and Answers" are all designed to provoke critical thinking. This text is suitable for undergraduate and postgraduate courses in Maintenance Engineering taught in the department of mechanical engineering in almost all

universities.

Engineering Drawing

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 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

Engineering Mathematics - Ii

As the global population continues to increase, it has become necessary to find ways to handle this increase through various policy tools that address population growth and urbanization problems. The urbanization process has both potential issues and opportunities that need to be exploited to move societies forward. Megacities and Rapid Urbanization: Breakthroughs in Research and Practice examines trends, challenges, issues, and strategies related to population growth and rapid urbanization and its impact on urban environments. The book also explores the use of different governance approaches in addressing challenges and different tools and systems of appropriate allocation to address issues. This publication is an ideal reference source for academicians, students, practitioners, professionals, managers, urban planners, and government officials.

Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications

Being Love

"This book explores the phenomena of the emergence of the use of artificial intelligence and other emerging technologies in teaching and learning in higher education. Recent technological advancements and the increasing speed of adopting new technologies in higher education are explored in order to predict the future nature of higher education in a world where artificial intelligence is part of the fabric of our universities"--

Happiness Unlimited

This book presents high-quality, original contributions (both theoretical and experimental) on software engineering, cloud computing, computer networks & internet technologies, artificial intelligence, information security, and database and distributed computing. It gathers papers presented at ICRIC 2019, the 2nd International Conference on Recent Innovations in Computing, which was held in Jammu, India, in March 2019. This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies, AI and machine learning, cloud-based e-Learning and big data, security and privacy, image processing and computer vision, and next-generation computing technologies.

Impact of AI Technologies on Teaching, Learning, and Research in Higher Education

As a paradigm for the future, micro-scale technology seeks to fuse revolutionary concepts in science and engineering and then translate it into reality. Nanotechnology is an interdisciplinary field that aims to connect what is seen with the naked eye and what is unseen on the molecular level. The Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering examines the strengths and future potential of micro-scale technologies in a variety of industries. Highlighting the benefits, shortcomings, and emerging perspectives in the application of nano-scale technologies, this book is a comprehensive reference source for synthetic chemists, engineers, graduate students, and researchers with an interest in the multidisciplinary applications, as well as the ongoing research in the field.

Engineering Physics

Description: This book gives you an opportunity to check your proficiency in Python by answering the questions in this book. The Programs / commands presented in this book are executed using Python version 3.5.2. The questions are categorized based on various facts of programming in python. The aim is to cover the topics in depth. Detailed explanation of each question helps even a novice learner. Salient features -More than 400 questions for testing skills in Python -Topics covered in sequence for novice readers -Getting started section gives a good start and overview -Questions are represented topic-wise so that a Python programmer can directly go for t--Testing a particular topic -Multiple choice questions with True/False options also -Questions based on output help to learn the programming skills and various in-built functions in Python-Better understanding through detailed explanation -Solved Model test papers help to learn theory questions

Table of Contents: Chapter 1 : Input -Output Chapter 2 : Operators and Expressions Chapter 3 : Decision Control statements Chapter 4 : Functions Chapter 5 : Loops Chapter 6 : Lists Chapter 7 : Strings Chapter 8 : Sets and Dictionaries Chapter 9 : Tuples Chapter 10 : Classes Chapter 11 : Files Chapter 12 : Graphics Chapter 13 : In-built functions Chapter 14 : Miscellaneous Appendix A: Python keywords and their use Appendix B: Operators in Python and their precedence Appendix C: Libraries in Python and common functions Bibliography Model Test Paper 1 (Solved) Model Test

Paper 2 (Solved) Model Test Paper 3 (Unsolved) Model Test Paper 4 (Unsolved)

Megacities and Rapid Urbanization: Breakthroughs in Research and Practice

The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. *Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications* is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and extensive coverage on a variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering.

A Text Book of Automobile Engineering

Introduction to Engineering Materials

This book gathers selected papers presented at the 2nd International Conference on Computing, Communications and Data Engineering, held at Sri Padmavati Mahila Visvavidyalayam, Tirupati, India from 1 to 2 Feb 2019. Chiefly discussing major issues and challenges in data engineering systems and computer communications, the topics covered include wireless systems and IoT, machine learning, optimization, control, statistics, and social computing.

Nanogels for Biomedical Applications

Electrical Power Systems

Individual users and business organizations are shifting their data storage and utilizing cloud computing because of its easy availability and reduced costs. Although, this technology is creating an easy way to store, share, and access data, serious security concerns have been generated. *Critical Research on Scalability and Security Issues in Virtual Cloud Environments* is a critical scholarly resource that examines the concept of cloud computing and explores the various shortcomings of using the cloud. Featuring coverage on a broad range of topics such as cloud architecture for scalability, data vulnerability, and server virtualization management, this book is geared towards academicians, practitioners, and researchers seeking current research on developing effective security measures for cloud paradigm.

Heat and Mass Transfer

About the Book: Written by three distinguished authors with ample academic and

teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

Governance

In these enlightening and eye-opening conversations, the renowned spiritual mentor, Sister BK Shivani reveals how to create a life of joy, contentment and bliss, because we all have the choice and the power to do so. According to her, the reason why there is so little happiness in the world is dependency. Happiness is not dependent on 'anything' or 'anyone', or found 'anywhere'. We keep delaying our happiness until things are just right in our life. We think we will be happy in the future and then wonder why we are not happy now. Happiness is only possible when we are able to accept everyone as they are, at every moment, in every situation. This book is a medium for the awakening and acceptance of self-responsibility. Helping us choose our thoughts and feelings aligned with our true nature of purity, peace and love. To make us shift from asking to sharing; from holding on to letting go; from expectations to acceptance; from the past and the future to being in the now. Happiness is a 'decision', not a 'consequence'.

A Textbook of Engineering Physics

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Hydraulics and Hydraulic Machines

The Book Irrigation And Water Resources Engineering Deals With The Fundamental And General Aspects Of Irrigation And Water Resources Engineering And Includes Recent Developments In Hydraulic Engineering Related To Irrigation And Water Resources Engineering. Significant Inclusions In The Book Are A Chapter On Management (Including Operation, Maintenance, And Evaluation) Of Canal Irrigation In India, Detailed Environmental Aspects For Water Resource Projects, A Note On Interlinking Of Rivers In India, And Design Problems Of Hydraulic Structures Such As Guide Bunds, Settling Basins Etc. The First Chapter Of The Book Introduces Irrigation And Deals With The Need, Development And Environmental Aspects Of Irrigation In India. The Second Chapter On Hydrology Deals With Different Aspects Of Surface Water Resource. Soil-Water Relationships Have Been Dealt With In Chapter 3. Aspects Related To Ground Water Resource Have Been Discussed In Chapter 4. Canal Irrigation And Its Management Aspects Form The Subject Matter Of Chapters 5 And 6. Behaviour Of Alluvial Channels And Design Of Stable Channels Have Been Included In Chapters 7 And 8, Respectively. Concepts Of Surface And Subsurface Flows, As Applicable To Hydraulic Structures, Have Been Introduced In Chapter 9. Different Types Of Canal Structures Have Been Discussed In Chapters 10, 11, And 13. Chapter 12 Has Been Devoted To Rivers And

River Training Methods. After Introducing Planning Aspects Of Water Resource Projects In Chapter 14, Embankment Dams, Gravity Dams And Spillways Have Been Dealt With, Respectively, In Chapters 15, 16 And 17. The Students Would Find Solved Examples (Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful.

Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering

This reference manual provides a list of approximately 300 technical terms and phrases common to environmental and civil engineering which non-English speakers often find difficult to understand in English. The manual provides the terms and phrases in alphabetical order, followed by a concise English definition, then a translation of the term in Tamil and, finally, an interpretation or translation of the term or phrase in Tamil. Following the Tamil translations section, the columns are reversed and reordered alphabetically in Tamil with the English term and translation following the Tamil term or phrase.

Handbook of Image-based Security Techniques

The book is revised specifically to address the needs of the latest course curriculum in Engineering Chemistry for the first semester students of all branches of engineering. The topics covered in the book are customarily taught in several universities and institutes. The book exposes students to fundamental knowledge in Water technology • Applications of surface chemistry and concept of nuclear energy and energy storage devices • Alloys and phase rule • Electrochemistry and principle involved in corrosion and its inhibition and protective coatings • Analysis of fuels and combustion KEY FEATURES • Several worked-out examples to help students reinforce their comprehension of theory • Numerous short and descriptive questions at the end of each chapter to test and foster students' conceptual understanding of the subject • Chapter-end problems to help students become proficient in problem solving TARGET AUDIENCE Students of first-year BE/BTech (All Branches)

Critical Research on Scalability and Security Issues in Virtual Cloud Environments

We can each radiate unconditional love. We don't even need to create it - we are love. But the flow of love is blocked in moments of hurt, blame, anger, criticism, competition or insecurity. These emotions have dominated our emotional space, and hardly enable us to feel our own love. So today, we rely on someone else to love us. This book teaches us to think right, enable self-love, feel it and extend it to other people. The central message here is that love is not 'out there', but within us. A spectrum of emotions like attachment, expectations, hurt, worry, stress, fear or anger, which we use in the pretext of love, are analysed. The conversations also explore the fact that the parent-child relationship is not challenging - It does not need to be. As you free yourself from judgments and expectations, as you start thinking right for people, and as you accept people for who they are, you become a Radiator of unconditional love. You are one decision away from vibrating at a

frequency of love ... by not needing love or giving love – but just by being love.

Proceedings of ICRIC 2019

This book comprises select peer-reviewed proceedings of the Control Instrumentation System Conference (CISCON 2019) in the specialized area of cyber-physical systems. The topics include current trends in the areas of instrumentation, sensors and systems, industrial automation and control, image and signal processing, robotics, renewable energy, power systems and power drives, and artificial intelligence technologies. Wide-ranging applications in various fields such as aerospace, biomedical, optical imaging and biomechanics are covered in the book. The contents of this book are useful for students, researchers as well as industry professionals working in the field of instrumentation and control engineering.

The Indian Journal of Agricultural Engineering

This book presents a key solution for current and future technological issues, adopting an integrated system approach with a combination of software engineering applications. Focusing on how software dominates and influences the performance, reliability, maintainability and availability of complex integrated systems, it proposes a comprehensive method of improving the entire process. The book provides numerous qualitative and quantitative analyses and examples of varied systems to help readers understand and interpret the derived results and outcomes. In addition, it examines and reviews foundational work associated with decision and control systems for information systems, to inspire researchers and industry professionals to develop new and integrated foundations, theories, principles, and tools for information systems. It also offers guidance and suggests best practices for the research community and practitioners alike. The book's twenty-two chapters examine and address current and future research topics in areas like vulnerability analysis, secured software requirements analysis, progressive models for planning and enhancing system efficiency, cloud computing, healthcare management, and integrating data-information-knowledge in decision-making. As such it enables organizations to adopt integrated approaches to system and software engineering, helping them implement technological advances and drive performance. This in turn provides actionable insights on each and every technical and managerial level so that timely action-based decisions can be taken to maintain a competitive edge. Featuring conceptual work and best practices in integrated systems and software engineering applications, this book is also a valuable resource for all researchers, graduate and undergraduate students, and management professionals with an interest in the fields of e-commerce, cloud computing, software engineering, software & system security and analysis, data-information-knowledge systems and integrated systems.

Happiness Unlimited

Irrigation and Water Resources Engineering

There are many factors to be considered when examining the current state of environmental problems in the modern world. By addressing these causes, the preservation of ecosystems and environmental resources can be maintained. Environmental Issues Surrounding Human Overpopulation is an authoritative reference source for the latest scholarly research on the depletion of natural resources due to overpopulation and presents insights on how these environmental threats can be addressed. Highlighting technological, economic, and social perspectives, this book is ideally designed for policymakers, researchers, academics, students, and practitioners interested in better understanding the current state of the global environment.

MAINTENANCE ENGINEERING AND MANAGEMENT

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 make the book educational in nature. It shou.

Advanced Treatment Techniques for Industrial Wastewater

This textbook presents the classical treatment of the problems of heat transfer in an exhaustive manner with due emphasis on understanding of the physics of the problems. This emphasis will be especially visible in the chapters on convective heat transfer. Emphasis is also laid on the solution of steady and unsteady two-dimensional heat conduction problems. Another special feature of the book is a chapter on introduction to design of heat exchangers and their illustrative design problems. A simple and understandable treatment of gaseous radiation has been presented. A special chapter on flat plate solar air heater has been incorporated that covers mathematical modeling of the air heater. The chapter on mass transfer has been written looking specifically at the needs of the students of mechanical engineering. The book includes a large number and variety of solved problems with supporting line diagrams. A number of application-based examples have been incorporated where applicable. The end-of-chapter exercise problems are supplemented with stepwise answers. Though the book has been primarily designed to serve as a complete textbook for undergraduate and graduate students of mechanical engineering, it will also be useful for students of chemical, aerospace, automobile, production, and industrial engineering streams. The book fully covers the topics of heat transfer coursework and can also be used as an excellent reference for students preparing for competitive graduate examinations.

Advances in Bio-Fuel Production

Proceedings of International Conference on Computational Intelligence and Data Engineering

Petroleum has played a crucial role in the socio-economic and political welfare of the world. It is a non-renewable form of energy and has an increasing demand in this modern era. To fulfil the demands, the conventional sources of oil reserves are being stressed and are nearly drought. Also, the burning of fossil fuel emits toxic gases contributing to environmental pollution and global warming. The concern about environmental deterioration helped scientists to invent ways to make bio-based products. These bio-based products can replace the use of gasoline, diesel, oil, plastics and much more. Among all the bio-based products, biofuel is the most noticed one for being humanity's first liquid fuel. Biofuels are important for various reasons including reduced environmental impact, an alternative source of energy, and a boost in economic development. In this book, detailed production of biofuels from non-conventional bio-feedstocks and advanced biofuels production have been discussed.

Environmental Engineering Dictionary of Technical Terms and Phrases

This book focuses on image based security techniques, namely visual cryptography, watermarking, and steganography. This book is divided into four sections. The first section explores basic to advanced concepts of visual cryptography. The second section of the book covers digital image watermarking including watermarking algorithms, frameworks for modeling watermarking systems, and the evaluation of watermarking techniques. The next section analyzes steganography and steganalysis, including the notion, terminology and building blocks of steganographic communication. The final section of the book describes the concept of hybrid approaches which includes all image-based security techniques. One can also explore various advanced research domains related to the multimedia security field in the final section. The book includes many examples and applications, as well as implementation using MATLAB, wherever required. Features: Provides a comprehensive introduction to visual cryptography, digital watermarking and steganography in one book Includes real-life examples and applications throughout Covers theoretical and practical concepts related to security of other multimedia objects using image based security techniques Presents the implementation of all important concepts in MATLAB

Nanomaterials for Water Remediation

Salient Features: Provided simple step by step explanations to motivate self study of the subject. Free hand sketching techniques are provided. Worksheets for free hand practice are provided. A new chapter on Computer Aided Design and Drawing (CADD) is added.

ENGINEERING CHEMISTRY, FOURTH EDITION

This book is a collection of high-quality research work on cutting-edge technologies and the most-happening areas of computational intelligence and data engineering. It includes selected papers from the International Conference on Computational Intelligence and Data Engineering (ICCIDE 2020). It covers various topics, including collective intelligence, intelligent transportation systems, fuzzy systems, Bayesian

network, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence and speech processing.

Environmental Issues Surrounding Human Overpopulation

This comprehensive textbook introduces electrical engineers to the most relevant concepts and techniques in electric power systems engineering today. With an emphasis on practical motivations for choosing the best design and analysis approaches, the author carefully integrates theory and application. Key features include more than 500 illustrations and diagrams, clearly developed procedures and application examples, important mathematical details, coverage of both alternating and direct current, an additional set of solved problems at the end of each chapter, and an historical overview of the development of electric power systems. This book will be useful to both power engineering students and professional power engineers.

TEST YOUR SKILLS IN PYTHON LANGUAGE

Intended as a textbook for the undergraduate students of civil and mechanical engineering, this book is the outcome of authors' vast experience in this subject area. It presents the basic theories of hydraulics and all types of hydraulic machines that are used in these days in our day-to-day life. Organized in two parts—Hydraulics (Part I) and Hydraulic Machines (Part II), the book is written in an easy-to-follow method in conformity to the syllabi followed in universities. The chapter end exercises of all the chapters are carefully prepared for the students, which enhance their problem-solving skills. This book is also useful for the students of chemical, electrical and aeronautical engineering. Key Features Copious well-illustrated figures Detailed description of various types of pumps and miscellaneous hydraulic machines Numerous solved problems and unsolved problems with answers Deductions and numerical examples in S.I. Units

Basic Civil Engineering

A text which deals with the basic principles of materials science and technology in a simple, yet thorough manner. This edition includes more worked examples and more detailed information on certain aspects of materials science. An ELBS/LPBB edition is available.

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