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Engineering Mathematics *Introduction to Engineering Mathematics Vol-1 (GBTU)* Renewable Energy Resources Introduction to Engineering Physics Vol-1 (U.P.Tech.Uni.Lucknow) **Engineering Mathematics-II: For WBUT** *Computer Organization Engineering Mathematics Iii: For Uptu* **15 Years Solved Papers UPTU UP SEE 2020 Introduction To Engineering Mathematics - Volume III (For APJAKTU, Lucknow)** *Introduction to Engineering Mathematics - Volume III [APJAKTU] Introduction to Engineering Mathematics - Volume II [APJAKTU Lucknow]* **Introduction to Engineering Mathematics - Volume I [APJAKTU Lucknow]** *Introduction to Engineering Mathematics - Volume IV [APJAKTU]* **Electrical Engineering (For 1st Year of UPTU & UTU)** Introduction to Fluid Mechanics and Fluid Machines *Theory of Automata & Formal Languages* Engineering Mathematics - III: For UPTU *Printed Antennas* **A Textbook of Engineering Mathematics (For First Year ,Anna University)** Computer Based Numerical and Statistical Techniques Mechanical and Industrial Engineering Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing **Mathematical Models of Infectious Diseases and Social Issues** *Handbook of Research on Management and Strategies for Digital Enterprise Transformation* **Engineering Mechanics** Cloud-based Intelligent Informative Engineering for Society 5.0 **Boon Mathematics - IV (PDE, Probability and Statistics) (KAS 301/KAS401)** *Technology-Driven E-Learning Pedagogy Through Emotional Intelligence* **Hybrid Intelligence for Smart Grid Systems** **Recent Trends in Industrial and Production Engineering** *Fundamentals of Solid-state Electronics* MATERIALS SCIENCE AND ENGINEERING **PRINCIPLES OF TRANSPORTATION ENGINEERING** Applications of Machine Learning

COMPUTER BASICS AND C PROGRAMMING Data Communications and Networking Introduction To Engg.Mathematics Vol-I (U.P.) **Management and Entrepreneurship** Remedial English Language **Basic Electrical Engineering**

Applications of Machine Learning Apr 24 2020 This book covers applications of machine learning in artificial intelligence. The specific topics covered include human language, heterogeneous and streaming data, unmanned systems, neural information processing, marketing and the social sciences, bioinformatics and robotics, etc. It also provides a broad range of techniques that can be successfully applied and adopted in different areas. Accordingly, the book offers an interesting and insightful read for scholars in the areas of computer vision, speech recognition, healthcare, business, marketing, and bioinformatics. **Hybrid Intelligence for Smart Grid Systems** Sep 29 2020 This book provides an overview of distributed control and distributed optimization theory, followed by specific details on industrial applications to smart grid systems. It discusses the fundamental analysis and design schemes for developing actual working smart grids and covers all aspects concerning the conventional and nonconventional methods of their use. Hybrid Intelligence for Smart Grid Systems provides an overview of a smart grid, along with its needs, benefits, challenges, and existing structure and describes the inverter topologies adopted for integrating renewable power, and provides an overview of its needs, benefits, challenges, and possible future technologies. This pioneering book is a must-read for researchers, engineering professionals, and students, giving them the tools needed to move from the concept of a smart grid to

its actual design and implementation. Moreover, it will enable regulators, policymakers, and energy executives to understand the future of energy delivery systems towards safe, economical, high-quality power delivery in a dynamic and demanding environment.

Computer Organization Sep 22 2022

Introduction to Engineering Mathematics - Volume I [APJAKTU

Lucknow] Mar 16 2022 Introduction to Engineering Mathematics Volume-I has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr. A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 19 chapters divided among five sections - Differential Calculus- I, Differential Calculus- II, Matrices, Multivariable calculus- I and Vector calculus. It contains good number of solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination.

Recent Trends in Industrial and Production Engineering Aug 29 2020 The book presents the select proceedings of the 3rd International Conference on Computational and Experimental Methods (ICCEMME 2021). It covers the broad topic of industrial and production engineering such as sustainable manufacturing systems, rapid prototyping, manufacturing process optimization, machining, and machine tools, casting, welding, forming, machining, machine tools, computer-aided engineering, manufacturing management, automation and metrology. This book will be useful for the researchers and professionals working in the in the field of industrial and production engineering.

Engineering Mathematics Iii: For Uptu Aug 21 2022

Engineering Mathematics-II: For WBUT Oct 23 2022

Renewable Energy Resources Dec 25 2022 "This second edition maintains the book's basis on fundamentals, whilst including experience gained from the rapid growth of renewable energy technologies as secure national resources and for climate change mitigation, more extensively illustrated with case studies and worked problems. The presentation has been improved throughout, along with a new chapter on economics and institutional factors. Each chapter begins with

fundamental theory from a scientific perspective, then considers applied engineering examples and developments, and includes a set of problems and solutions and a bibliography of printed and web-based material for further study. Common symbols and cross referencing apply throughout, essential data are tabulated in appendices. Sections on social and environmental aspects have been added to each technology chapter." -- back cover.

Introduction to Engineering Mathematics - Volume III [APJAKTU] May 18 2022 Introduction to Engineering Mathematics Volume-III is written for the B.E./B.Tech./B. Arch. students of third/fourth semester of Dr. A.P.J. Abdul Kalam Technical University (AKTU) in according to the new syllabus. The book is divided into twenty-five chapters covering all the important topics of the subject. It contains fairly a large number of solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination.

Engineering Mathematics Feb 27 2023 Engineering Mathematics (Conventional and Objective Type) completely covers the subject of Engineering Mathematics for engineering students (as per AICTE) as well as engineering entrance exams such as GATE, IES, IAS and Engineering Services Exams. Though a first edition, the book is enriched by 50 years of Academics and professional experience of the Author(s) and the experience of more than 85 published books.

Mathematical Models of Infectious Diseases and Social Issues Apr 05 2021 When deadly illness spreads through a population at a rapid pace, time may be of the essence in order to save lives. Using mathematics as a language to interpret assumptions concerning the biological and population mechanics, one can make predictions by analyzing actual epidemiological data using mathematical tests and results. Mathematical models can help us understand the right disease status and predict the effects of the disease on populations, which can help limit the spread and devastation of the illness. Mathematical Models of Infectious Diseases and Social Issues is a collection of innovative

research that examines the dynamics of diseases and their effect on populations. Featuring coverage of a broad range of topics including deterministic models, environmental pollution, and social issues, this book is ideally designed for diagnosticians, clinicians, healthcare providers, pharmacists, government health officials, policymakers, academicians, researchers, and students.

Engineering Mechanics Feb 03 2021 This Is A Comprehensive Book Meeting Complete Requirements Of Engineering Mechanics Course Of Undergraduate Syllabus. Emphasis Has Been Laid On Drawing Correct Free Body Diagrams And Then Applying Laws Of Mechanics. Standard Notations Are Used Throughout And Important Points Are Stressed. All Problems Are Solved Systematically, So That The Correct Method Of Answering Is Illustrated Clearly. Care Has Been Taken To See That Students Learn The Methods Which Help Them Not Only In This Course, But Also In The Connected Courses Of Higher Classes. The Dynamics Part Is Split In To Sufficient Number Of Chapters To Clearly Illustrate Linear Motion To General Plane Motion. A Chapter On Shear Force And Bending Moment Diagrams Is Added At The End To Cover The Syllabi Of Various Universities. All These Feature Make This Book A Self-Sufficient And A Good Text Book.

Introduction To Engineering Mathematics - Volume III (For APJAKTU, Lucknow) Jun 19 2022 "Introduction to Engineering Mathematics" series is compiled specifically for the faculty and students at all engineering colleges of Dr A.P.J. Abdul Kalam Technical University (AKTU), Lucknow, UP along with other engineering institutes which might follow the same course pattern. With a completely new syllabus, the subject is fully covered in a single textbook. Therefore for "Integral Transform and Discrete Maths" students and faculties need not refer to multiple texts anymore. Replete with well-placed examples to complement the theory, the book enables students to learn effortlessly of so-called difficult topics as well.

Boon Mathematics - IV (PDE, Probability and Statistics) (KAS 301/KAS401) Dec 01 2020 It is very heartening that the new edition of our book "MATHEMATICS -IV" fully revised, is out to reach the B.Tech.

Students of AKTU, Lucknow. It is as per the latest syllabi of all these university. Latest papers of these university have been included at the end and have been solved in the book.

Fundamentals of Solid-state Electronics Jul 28 2020 This Solution Manual, a companion volume of the book, Fundamentals of Solid-State Electronics, provides the solutions to selected problems listed in the book. Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an introductory device core course using this book. This Solution Manual also contains an extensive appendix which illustrates the application of the fundamentals to solutions of state-of-the-art transistor reliability problems which have been taught to advanced undergraduate and graduate students.

A Textbook of Engineering Mathematics (For First Year ,Anna University) Aug 09 2021

Technology-Driven E-Learning Pedagogy Through Emotional Intelligence Oct 31 2020 Empirical and anecdotal data suggests that education technology increases access to learning, democratizes knowledge, and increases the breadth and richness of the learning experience. Due to this, there is a need to disseminate awareness and information about the role of emotional intelligence and technology from various dimensions to help students and teachers maintain the quality of e-learning and emotional well-being. Technology-Driven E-Learning Pedagogy Through Emotional Intelligence provides updated research perspectives focusing on the relationship between e-learning pedagogy, technology, and emotional intelligence. Covering key topics such as blended learning, resilience, social awareness, and empathy, this reference work is ideal for administrators, researchers, scholars, academicians, practitioners, instructors, and students.

Introduction to Engineering Mathematics - Volume IV [APJAKTU] Feb 15 2022 Introduction to Engineering Mathematics - Volume IV has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr. A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 13 chapters divided among five modules - Partial Differential

Equations, Applications of Partial Differential Equations, Statistical Techniques - I, Statistical Techniques - II and Statistical Techniques - III. [Remedial English Language](#) Nov 19 2019

Theory of Automata & Formal Languages Nov 12 2021 This Book Is Designed To Meet The Syllabus Of U.P. Technical University. This Book Also Meets The Requirements Of Students Preparing For Various Competitive Examinations. Professionals And Research Workers Can Also Use This Book As A Ready Reference. It Covers The Topics Like Finite State Automata, Pushdown Automata, Turing Machines, Undecidability And Chomsky Hierarchy. Salient Features# Simple And Clear Presentation# Includes More Than 300 Solved Problems# Comprehensive Introduction To Each Topic# Well Explained Theory With Constructive Examples

[Cloud-based Intelligent Informative Engineering for Society 5.0](#) Jan 02 2021 Cloud-based Intelligent Informative Engineering for Society 5.0 is a model for the dissemination of cutting-edge technological innovation and assistive devices for people with physical impairments. This book showcases Cloud-based, high-performance Information systems and Informatics-based solutions for the verification of the information support requirements of the modern engineering, healthcare, modern business, organization, and academic communities. Features: Includes broad variety of methodologies and technical developments to improve research in informative engineering. Explore the Internet of Things (IoT), blockchain technology, deep learning, data analytics, and cloud. Highlight Cloud-based high-performance Information systems and Informatics-based solutions. This book is beneficial for graduate students and researchers in computer sciences, cloud computing and related subject areas.

Handbook of Research on Management and Strategies for Digital Enterprise Transformation Mar 04 2021 From traditional brick and mortar to new start-ups, businesses are harnessing the power of digital enterprise as a cost-effective model to deliver goods and services online. Digital enterprise strategy is adopted for transforming business, streamlining processes, and making the best use of online technologies

to enhance interaction with customers and employees and deliver excellent customer experience in real time. Digital enterprises increasingly need digital workers to establish greater digital skills to bear on every activity and to drive management, strategy, and innovation, which are key for digital enterprise transformation. The Handbook of Research on Management and Strategies for Digital Enterprise Transformation is a crucial reference source that discusses leveraging technology for the customers', employees', and suppliers' benefit, as well as integrating complex processes to management, marketing, production, manufacturing, and financial systems. Combining management, strategy, technology, and digital enterprise topics into one book provides the reader with a holistic understanding of the new developments in these emerging fields. This study will also include key topics of interest on how to address structural changes underway in the local and global business environment for digital enterprise transformation. Featuring research on topics such as e-commerce, organizational learning, and agile management, this book is ideally designed for business professionals, policymakers, researchers, students, and managers.

Introduction to Engineering Physics Vol-1 (U.P.Tech.Uni.Lucknow) Nov 24 2022 or BE/BTech /B Arch students for third semester of all engineering Colleges under UPTU This book is primarily written according to the unified syllabus (2009-2010) of Mathematics-III for all Engineering students.

[Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing](#) May 06 2021 In today's market, emerging technologies are continually assisting in common workplace practices as companies and organizations search for innovative ways to solve modern issues that arise. Prevalent applications including internet of things, big data, and cloud computing all have noteworthy benefits, but issues remain when separately integrating them into the professional practices. Significant research is needed on converging these systems and leveraging each of their advantages in order to find solutions to real-time problems that still exist. Challenges and Opportunities for the Convergence of IoT, Big

Data, and Cloud Computing is a pivotal reference source that provides vital research on the relation between these technologies and the impact they collectively have in solving real-world challenges. While highlighting topics such as cloud-based analytics, intelligent algorithms, and information security, this publication explores current issues that remain when attempting to implement these systems as well as the specific applications IoT, big data, and cloud computing have in various professional sectors. This book is ideally designed for academicians, researchers, developers, computer scientists, IT professionals, practitioners, scholars, students, and engineers seeking research on the integration of emerging technologies to solve modern societal issues.

Introduction to Engineering Mathematics Vol-1(GBTU) Jan 26 2023 For B.E./B.Tech. / B.Arch. Students for First Semester of all Engineering Colleges of Maha Maya Technical University, Noida and Gautam Buddha Technical University, Lucknow

Data Communications and Networking Feb 21 2020

Printed Antennas Sep 10 2021 Printed antennas have become an integral part of next-generation wireless communications and have been found to be commonly used to improve system capacity, data rate, reliability, etc. This book covers theory, design techniques, and the chronological regression of the printed antennas for various applications. This book will provide readers with the basic conceptual knowledge about antennas along with advanced techniques for antenna design. It covers a variety of analytical techniques and their CAD applications and discusses new applications of printed antenna technology such as sensing. The authors also present special reconfigurable antennas such as ME dipole, polarization, feeding, and DGS. The book will be useful to students as an introduction to design and applications of antennas. Additionally, experienced researchers in this field will find this book a ready reference and benefit from the techniques of research in printed antennas included in this book. Following are some of the salient features of this book: Covers a variety of analytical techniques and their CAD applications Discusses new applications of printed antenna technology such as sensing Examines the state of design techniques of printed antenna

Presents special reconfigurable antennas such as ME dipole, polarization, feeding, and DGS

MATERIALS SCIENCE AND ENGINEERING Jun 26 2020 This well-established and widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal imperfections, phase diagrams, solid-state diffusion and phase transformations. This provides a deep insight into the structural control necessary for optimizing the various properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on 'Nanomaterials' is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science. KEY FEATURES • All relevant units and constants listed at the beginning of each chapter • A note on SI units and a full table of conversion factors at the beginning • A new chapter on 'Nanomaterials' describing the state-of-art information • Examples with solutions and problems with answers • About 350 multiple choice questions with answers

Electrical Engineering (For 1st Year of UPTU & UTU) Jan 14 2022 Basic Of Concepts • D.C. Circuit Analysis • Network Theorem • A. C. Fundamentals • Analysis Of Single Phase A.C. Circuit • Three Phase A.C.

Circuit • Measuring Instruments • Introduction To Power System • Magnetic Circuits • Single Phase Transformer • D.C. Machines • Induction Motors • Three Phase Synchronous Machines Papers Index Computer Based Numerical and Statistical Techniques Jul 08 2021

Computer Based Numerical and Statistical Techniques has been written to provide fundamental introduction of numerical analysis for the students who take a course on Engineering Mathematics and for the students of computer science engineering. The book has been divided into 14 chapters covering all important aspects starting from high speed computation to Interpolation and Curve Fitting to Numerical Integration and Differentiation and finally focusing on Test of Significance

15 Years Solved Papers UPTU UP SEE 2020 Jul 20 2022 Dr. APJ.

Abdul Kalam Technical University (Formerly Known as Uttar Pradesh Technical University) conducts a state level entrance examination called UPSEE also known as Uttar Pradesh State Entrance Exam for both UG and PG courses, each year it shortlist students as per their rankings and accordingly allocates them colleges. In order to get admissions in UPTU Engineering Stream it is mandatory to have good ranking in the written examination. The present edition of "15 YEARS' SOLVED PAPERS UPTU/UPSEE" provides the complete package of Physics, Chemistry and Mathematics Questions which gives the exact idea of the examination pattern and the answer writing skills in the paper. Authentic and Complete Solutions are given of each question of 15 Years' [2005-2019] Papers in lucid language that clears all the concepts, doubts of the students and easily understood by the candidates. Ample amount of questions are provided for thorough practice so that candidates will be able to qualify the exam with good rankings. Preparation from this book help students to step ahead towards their goal. TABLE OF CONTENT Solved Papers 2005-2019.

Engineering Mathematics - III: For UPTU Oct 11 2021 Engineering Mathematics III: For UPTU is designed as per the specific requirements of the second-semester paper offered in the B.E./B.Tech syllabus of Uttar Pradesh Technical University (UPTU). With an emphasis on problem-solving techniques, engineering applications, as well as detailed

explanations of the mathematical concepts, this book will give the students a complete grasp of the mathematical skills that are needed by engineers. The focus on practice rather than theory ensures complete mastery over the topics covered in the semester.

Management and Entrepreneurship Dec 21 2019 About the Book: Of late, academicians of technical education have felt the importance of "Management" and "Entrepreneurship". Engineers need to manage their departments/sections/subordinates, and Entrepreneurship helps the large pool of technical manpower in developing small-scale industries in high tech areas thereby contributing to the economy of the country. This book covers both 'Management' and 'Entrepreneurship'. The first chapters of this book deal with Management, Planning, Organizing and Staffing, Directing and Controlling. The last four chapters deal with Entrepreneurship, Small-Scale Industries, Institutional support and Project formulation. Adequate number of simple examples with which the students are familiar are included in each chapter. In addition, each chapter contains student learning activities to give the readers a chance to enhance the learning process. Though the book is written keeping in mind the syllabus of Visvesvaraya Technological University, yet it is useful for B.Com, BBM, DBM, . PGDBM and MBA students also.

Contents: Management Planning Organizing and Staffing Directing and Controlling Entrepreneurship Small-Scale Industries Institutional Support Preparation of Project.

PRINCIPLES OF TRANSPORTATION ENGINEERING May 26 2020

This detailed introduction to transportation engineering is designed to serve as a comprehensive text for under-graduate as well as first-year master's students in civil engineering. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems, from the perspective of Indian conditions.

Mechanical and Industrial Engineering Jun 07 2021 This book covers historical aspects and future directions of mechanical and industrial engineering. Chapters of this book include applied mechanics and design, tribology, machining, additive manufacturing and management of industrial technologies.

Basic Electrical Engineering Oct 19 2019 For close to 30 years, □Basic Electrical Engineering□ has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

Introduction To Engg. Mathematics Vol-I (U.P.) Jan 22 2020 This book is primarily written according to the unified syllabus, 2003 of Mathematics of first semester and second semester of all Engineering Colleges affiliated to U.P. Technical University, Lucknow and other States of India. This book also covers the B.Tech./B.E./B.Arch First year courses of other Indian Engineering Colleges. This is divided into Thirty chapters on different topics. Multiple integral Chapter has been divided into two separate chapters i.e. one chapter on Double Integration and the other chapter on Triple integration, so that the readers can understand easily.

Introduction to Fluid Mechanics and Fluid Machines Dec 13 2021

Introduction to Engineering Mathematics - Volume II [APJAKTU Lucknow] Apr 17 2022 Introduction to Engineering Mathematics Volume-II has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr. A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 15 chapters divided among five modules - Ordinary Differential Equations of Higher Order, Multivariable Calculus-II, Sequence and Series, Complex Variable Differentiation and Complex Variable-Integration. It contains numerous solved examples from question papers of examinations recently held by different universities

and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination.

COMPUTER BASICS AND C PROGRAMMING Mar 24 2020 This book introduces students to the basics of computers, software and internet along with how to program computers using the C language. It is intended for an introductory course that gives beginning engineering and science students a firm rooting in the fundamental principles of computers and information technology, and also provides invaluable insights into key concepts of computing through development of skills in programming and problem solving using C language. To this end, the book is eminently suitable for the first-year engineering students of all branches and MCA students, as per the prescribed syllabus of several universities. C is a difficult language to learn if it is not methodically introduced. The book explains C and its basic programming techniques in a way suitable for beginning students. It begins by giving students a solid foundation in algorithms to help them grasp the overall concepts of programming a computer as a problem-solving tool. Simple aspects of C are introduced first to enable students to quickly start writing programs. More difficult concepts in the latter parts of the book, such as pointers and their use, have been presented in an accessible manner making the learning of C an exciting and interesting experience. The methodology used is to illustrate each new concept with a program and emphasize a good style in programming to allow students to gain sufficient skills in problem solving.

KEY FEATURES Self-contained introduction to both computers and programming for beginners All important features of C illustrated with over 100 examples Good style in programming emphasized Laboratory exercises on applications of MS Office, namely, Word processing, Spreadsheet, PowerPoint are included.