

Engineering By Gk Mittal

This innovative book uses unifying themes so that the boundaries between thermodynamics, heat transfer, and fluid mechanics become transparent. It begins with an introduction to the numerous engineering applications that may require the integration of principles and tools from these disciplines. The authors then present an in-depth examination of the three disciplines, providing readers with the necessary background to solve various engineering problems. The remaining chapters delve into the topics in more detail and rigor.

Numerous practical engineering applications are mentioned throughout to illustrate where and when certain equations, concepts, and topics are needed. A comprehensive introduction to thermodynamics, fluid mechanics, and heat transfer, this title: Develops governing equations and approaches in sufficient detail, showing how the equations are based on fundamental conservation laws and other basic concepts. Explains the physics of processes and phenomena with language and examples that have been seen and used in everyday life. Integrates the presentation of the three subjects with common notation, examples, and problems. Demonstrates how to solve any problem in a systematic, logical manner. Presents material appropriate for an introductory level course on thermodynamics, heat transfer, and fluid mechanics.

GKP has always been an impeccable source of preparation to a large number of students when it comes to the banking exams. The Recruitment Examination for Specialist Officer (IT), conducted by Institute for Banking Personnel Selection (IBPS) and State Bank of India (SBI) is an opportunity for young graduates and professionals to accelerate their career growth in the Indian Banking Sector. Continuing with GKP's mission to provide students with quality preparation material for recruitment tests conducted by IBPS, we have come up with Objective Professional Knowledge for IBPS/SBI Specialist Officer's position. This book will also help in preparing for various Computer Science Teaching Examinations. It explains the basic concepts and comprises of the actual solved papers of SBI Specialist Officer exam 2017 and 2018 and IBPS Specialist Officer exam 2017,2018 and 2019. Each question is supported with detailed answers for understanding concepts more clearly. This bookwillhelp students familiarize themselves with the exam pattern and weightage of questions. About the current edition: a. Solved papers of SBI and IBPS exams of years- 2017,2018,2019 b. Designed as per the pattern of IBPS c. Answer keys provided

The present book has been thoroughly revised and lot of useful material has been added .sveral photographs of electronic devices and their specifications sheets have been included.This will help the students to have a better understanding of the electric devices and circuits from application point of view.the mistake and misprints,which has crept in,have been eliminated in this edition.

FEC 105 Basic Electrical and Electronics Engineering

GATE 2022 Mechanical Engineering - Solved Papers (2000-2021)

GATE 2021 - L- Guide - Chemical Engineering

Control System Design

Seminar Papers, Thirtieth All India Library Conference, Rajasthan University, Jaipur, January 28-31, 1985

Mechanical EngineeringThrough Objective QuestionsObjective Electronics & Communication Engineering By GK MithalG.K Publications Pvt.Limited

GKP's 'Objective?' series has been used by engineering students over the years to prepare for GATE, PSU examinations and campus recruitment tests. The series includes five books i.e. Computer Science and IT, Electrical, Electronics and Communication, Mechanical and Civil. In order to make students thorough with the variety of questions, each book in this series provides them with questions segregated into two sections. The first section includes a set of practice exercise under each topic and the second section provides previous year's questions of exams such as GATE and various PSUs exams. Each question in the later section has been tagged with the exam name to make the preparation all the more easier. This combination of conceptual questions and previous year's questions would completely solve the purpose of the students for a quick practice with complete preparation for the exam. The books in this series will also be helpful to prepare for the technical section of various campus recruitment tests.

This comprehensive introduction to basic manufacturing processes is ideal for both degree and diploma courses in engineering. With several pedagogical features, the text makes the topics understandable and appealing for students. The book first introduces the concepts of engineering materials and their properties, measurement and quality in manufacturing and allied activities before dwelling upon the details of different manufacturing processes such as machining, casting, metal forming, powder metallurgy and joining. To keep pace with the latest advancements in technology, use of non-conventional resources, applications of computers, and use of robots in manufacturing are also discussed in considerable detail. The text also provides a thorough treatment of topics on economy and management of production.

Basic Electrical and Electronics Engineering

Objective Mechanical Engineering By GK Mithal

Engineering Mathematics

TRB 2019-20

Manufacturing Process

Thousands of students write the GATE Paper annually. The level of competition is fierce, owing to the increasing competition every year for a limited number of seats. If you are a serious aspirant, it is advisable to prepare for GATE with the right books. A major game-changer is the habit to practice and revise the concepts and this is why our GATE 2022 Topic-wise Solved Papers are your best bet to be GATE ready! This book consists of GATE previous years' solved papers of last 35 years. Solved papers enable an aspirant to get acquainted with the exam pattern and the weightage of each topic and section. With the right effort and proper guidance, we're sure that you will be able to face GATE 2022 confidently. Features: 35 years' Solved papers - fully solved and updated Topic-wise arrangement Comprehensive analysis of previous years' papers Thoroughly revised and updated

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). This book, in particular, focuses on characterizing materials using novel techniques. It covers a variety of advanced materials, viz. composites, coatings, nanomaterials, materials for fuel cells, biomaterials among others. The book also discusses advanced characterization techniques like X-ray photoelectron, UV spectroscopy, scanning electron, atomic power, transmission electron and laser confocal scanning fluorescence microscopy, and gel electrophoresis chromatography. This book gives the readers an insight into advanced material processes and characterizations with special emphasis on nanotechnology.

This book covers the theory and mathematics needed to understand the concepts in control system design. Chapter 1 deals with compensation network design. Nonlinear control systems, including phase-plane analysis and the Delta method are presented in chapter 2. The analysis and design aspects based on the state variable approach are presented in Chapter 3. The discrete time control systems form the basis for the study of digital control systems in Chapter 4, covering the frequency response, root locus analysis, and stability considerations for discrete-time control systems. The stability analysis based on the Lyapunov method is given in chapter 5. The appendices include two US government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Dept. of Energy). Concepts in the text are supported by numerical examples. Features:• Covers the theory and mathematics needed to understand the concepts in control system design • Includes two U.S. government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Department of Energy)

Network Analysis & Synthesis (Including Linear System Analysis)

Electronics Devices And Circuits

Proceedings of MARC 2020

Radio Engineering

Macro Economics

This book gathers selected proceedings of the annual conference of the Indian Geotechnical Society, and covers various aspects of soil dynamics and earthquake geotechnical engineering. The book includes a wide range of studies on seismic response of dams, foundation-soil systems, natural and man-made slopes, reinforced-earth walls, base isolation systems and so on, especially focusing on the soil dynamics and case studies from the Indian subcontinent. The book also includes chapters addressing related issues such as landslide risk assessments, liquefaction mitigation, dynamic analysis of mechanized tunneling, and advanced seismic soil-structure-interaction analysis. Given its breadth of coverage, the book offers a useful guide for researchers and practicing civil engineers alike.

Thousands of students write the GATE Paper annually. The level of competition is fierce, owing to the increasing competition every year for a limited number of seats. If you are a serious aspirant, it is advisable to prepare for GATE with the right books. A major game-changer is the habit to practice and revise the concepts and this is why our GATE 2022 Solved Papers are your best bet to be GATE ready! This book consists of GATE previous years' completely solved papers from year 2000-2021. Solved papers enable an aspirant to get acquainted with the exam pattern and the weightage of each topic and section. With the right effort and proper guidance, we're sure that you will be able to face GATE 2022 confidently. Features: 22 years' Completely Solved papers Comprehensive analysis of previous years' papers Thoroughly revised and updated

Electromagnetic materials have both civilian and defence applications, such as novel antenna designs and protection against high power transients in densely packed printed circuits. For certain applications, the materials may be required to have special frequency response or polarization response to meet the component or system specifications. An in-depth understanding of the responses of materials to electromagnetic waves may even enable us to design and fabricate materials with properties not found in nature. This book constitutes the proceedings of the Symposium on Electromagnetic Materials, which provided a forum for scientists and engineers to report the latest research findings, to exchange ideas and information, and to establish research links. Contents: Dielectric CompositesNano CompositesMagnetic CompositesMetamaterialsPeriodic StructuresApplicationsHTS and Thin Films Readership: Researchers in materials engineering, amorphous materials and applied physics. Keywords:Electromagnetics;Material Science;Composite Materials;Dielectric Materials;Ferrite Materials;Metamaterials

Machine Learning, Advances in Computing, Renewable Energy and Communication

GATE 2022 Electronics & Communication Engineering - Solved Papers (2000-2021)

Applied Electronics

A Financial Times Survey

Through Objective Questions

Materials for Biomedical Engineering: Biopolymer Fibers discusses the use of biopolymer fibers in the development of biomedical applications. It provides a recent review of the main types of polymeric fibers and their impact in biomedicine and related fields. The development of different instruments, such as sensors, medical fibers, and textiles are discussed, along with how they greatly benefited by progress made in polymeric fibers. The book provides a comprehensive and updated reference on the latest research in the field of biopolymers and their composites in relation to medical applications. Provides a valuable resource of recent scientific progress, highlighting the application and use of polymeric fibers in biomedical engineering that can be used by researchers, engineers and academics Includes novel opportunities and ideas for developing or improving technologies in biopolymers by companies, biomedical industries, and other sectors Features at least 50% of references from the last 2-3 years

For the students of B.Com. (Hons.) Delhi University Annual and Semester Examination

This book gathers selected papers presented at International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC 2020), held in Krishna Engineering College, Ghaziabad, India, during December 17-18, 2020. This book discusses key concepts, challenges, and potential solutions in connection with established and emerging topics in advanced computing, renewable energy, and network communications.

Power Plant Engineering

Objective Computer Science

Civil Engineering

Mechanical 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.

TRB (Teacher's Recruitment Board) of Tamil Nadu is conducting examination for the recruitment of Lecturers for different branches of Engineering i.e Computer Science, Mechanical, Civil, Electronics & Communication, and Electrical & Electronics. GK Publication has come up with this set of guides for TRB Lecturers (Engineering)? for all the branches of Engineering for the preparation of this Examination. It is divided into sections namely- General Knowledge, Mock tests- I & II, Engineering Mathematics and Technical Section. This set of guides will serve the purpose of providing quality preparation to all the aspirants and will help them ace the examination. Features: 1. Comprehensive Study material 2. Includes Mock Tests 3. In coherence with the exam pattern

Effective from 2008-09 session, U.P.T.U. has introduced the subject of manufacturing processes for first year engineering students of all streams. This textbook covers the entire course material in a distilled form.

Advances in Engineering Materials

GATE 2022 Mechanical Engineering - 35 Years Topic-wise Previous Solved Papers

Materials for Biomedical Engineering: Biopolymer Fibers

Objective Electrical Engineering By GK Mithal

Handbook Series of Mechanical Engineering

The third edition of the book on Industrial Electronics and Control including Programmable Logic Controller is aimed at providing an explicit explanation of the mode of operation of different electronic power devices in circuits and systems that are in wide use today in modern industry for the control and conversion of electric power. The book strives to fulfil this need for a fundamental treatment that allows students to understand all aspects of circuit functions through its neatly drawn illustrations and wave diagrams. Several colour diagrams are included to explain difficult circuits and waveforms. This approach will help students in assimilating the operation of power electronics circuits with more clarity. Same as in previous editions, the book commences with a discussion on rectifiers, differential amplifiers, operational amplifiers, multivibrators, timers and goes on to provide in-depth coverage of power devices and power electronics circuits such as silicon controlled rectifiers (SCRs), inverters, dual converters, choppers, cycloconverters and their applications in the control of a/c motors, and heating and welding processes. The book also presents an overview of the modern developments in the field of optoelectronics and fibre optics. Finally, the book ends with a discussion on Programmable Logic Controller (PLC). The book has an added advantage of multiple-choice questions, true/false statements, review questions and numerical problems at the end of each chapter, designed to reinforce the student's understanding of the concepts and mathematical derivations introduced in the text. The book is intended as a textbook for polytechnic students pursuing courses in electrical engineering, electronics and communication engineering, and electronics and instrumentation engineering. This tailor-made book with its exhaustive explanations of circuit operations and its student-friendly approach should prove to be a boon to the students and teachers alike. AUDIENCE: Polytechnic Students - pursuing courses in Electrical Engineering, Electronics and Communication Engineering, and Electronics and Instrumentation Engineering

This Book Has Been Designed As A Basic Text For Undergraduate Students Of Electrical, Electronics And Communication And Computer Engineering. In A Systematic And Friendly Manner, The Book Explains Not Only The Fundamental Concepts Like Circuit Elements, Kirchhoff S Laws, Network Equations And Resonance, But Also The Relatively Advanced Topics Like State Variable Analysis, Modern Filters, Active Rc Filters And Sensitivity Considerations.Salient Features * Basic Circuit Elements, Time And Periodic Signals And Different Types Of Systems Defined And Explained. * Network Reduction Techniques And Source Transformation Discussed. * Network Theorems Explained Using Typical Examples. * Solution Of Networks Using Graph Theory Discussed. * Analysis Of First Order, Second Order Circuits And A Perfect Transform Using Differential Equations Discussed. * Theory And Application Of Fourier And Laplace Transforms Discussed In Detail. * Interconnections Of Two-Port Networks And Their Performance In Terms Of Their Poles And Zeros Emphasised. * Both Foster And Cauer Forms Of Realisation Explained In Network Synthesis. * Classical And Modern Filter Theory Explained. * Z-Transform For Discrete Systems Explained. * Analogous Systems And Spice Discussed. * Numerous Solved Examples And Practice Problems For A Thorough Graph Of The Subject. * A Huge Question Bank Of Multiple Choice Questions With Answers Exhaustively Covering The Topics Discussed.WITH ALL THESE FEATURES, THE BOOK WOULD BE EXTREMELY USEFUL NOT ONLY FOR UNDERGRADUATE ENGINEERING STUDENTS BUT ALSO FOR AMIE AND GATE CANDIDATES AND PRACTISING ENGINEERS.

Scope of science and technology is expanding at an exponential rate and so is the need of skilled professionals i.e., Engineers. To stand out of the crowd amidst rising competition, many of the engineering graduates aim to crack GATE, IES and PSUs and pursue various post graduate Programmes. Handbook series as its name suggests is a set of Best-selling Multi-Purpose Quick Revision resource books, those are devised with anytime, anywhere approach. It's a compact, portable revision aid like none other. It contains almost all useful Formulae, equations, Terms, definitions and many more important aspects of these subjects. Mechanical Engineering Handbook has been designed for aspirants of GATE, IES, PSUs and Other Competitive Exams. Each topic is summarized in the form of key points and notes for everyday work, problem solving or exam revision, in a unique format that displays concepts clearly. The book also displays formulae and circuit diagrams clearly, places them in context and crisply identities and describes all the variables involved.Mechanics, Strength of Materials, Theory of Machine, Machine design, Fluid Mechanics, Heat and Mass Transfer, Thermodynamics, Power Plant Engineering, Refrigeration and Air Conditioning, Internal Combustion engine, Material Science and Production Engineering, Industrial Engineering, Element of Computation.

Objective Civil Engineering By GK Mithal

Performance Management of Integrated Systems and Its Applications in Software Engineering

Engineering Economics and Management

A Textbook of Applied Electronics

Electromagnetic Materials

This textbook fills the gap between the very basic and the highly advanced volumes that are widely available on the subject. It offers a concise but comprehensive overview of a number of topics, like general relativity, fission and fusion, which are otherwise only available with much more detail in other textbooks. Providing a general introduction to the underlying concepts (relativity, fission and fusion, fundamental forces), it allows readers to develop an idea of what these two research fields really involve. The book uses real-world examples to make the subject more attractive and encourage the use of mathematical formulae. Besides short scientists' biographies, diagrams, end-of-chapter problems and worked solutions are also included. Intended mainly for students of scientific disciplines such as physics and chemistry who want to learn about the subject and/or the related techniques, it is also useful to high school teachers wanting to refresh or update their knowledge and to interested non-experts.

Objective Electronics & Communication Engineering By GK Mithal

ELEMENTS OF MANUFACTURING PROCESSES

Objective Questions in Water Resources Engineering

Introduction to Thermal and Fluids Engineering

Lecturers Engineering - Electronics & Communication Engineering