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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.

3rd Indo-German Conference on Sustainability in Engineering Academic Press

About the Book: This book is an attempt to consolidate the basic scientific studies in the machining area so that fundamental mechanics and other concepts related to primary machining processes could be understood. The book is essentially designed for senior undergraduate

mechanical and production engineering students but practicing engineers will also find it useful for tool and product design.

The topics covered include plastic deformation, chip formation, tool geometry, mechanics of orthogonal and oblique cutting, measurement of cutting force, cutting temperature, tool wear and tool life, economics of machining, grinding of metals and machining vibrations. The analyses presented have been illustrated through numerical examples. Review questions and bibliography are also included. About the Author: Dr. G.K. Lal has been associated with the Indian Institute of Technology, Kanpur for the past 34 years. He retired as a Professor of Mechanical Engineering in 2003 and had earlier held the positions of Dean (1976-80) and Deputy Director (1982-88). Before joining IIT Kanpur he had taught at the Banaras Hindu University and held

research positions at the University of Sherbrooke (Canada) and the Carnegie-Mellon University (USA). He also worked as a Design Engineer with the Abitibi Paper and Power Corp. of Canada.

GATE 2022 Mechanical Engineering - 35 Years Topic-wise Previous Solved Papers
John Wiley & Sons

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.

Soil Dynamics and Earthquake Geotechnical Engineering Disha Publications

12 Years Solved Papers 2010-2021 (Year-wise) with detailed explanations 2 Sample Question Papers – Smart Answer key with detailed explanations. Blended Learning (Print and online support) Tips & Tricks to crack the Exam in first attempt GATE Qualifying Cut-offs and Highest Marks of 2021 and 2020- Steam-wise GATE General Aptitude 2021 to 2017 – Trend Analysis GATE Score Calculation Mind Maps and Mnemonics

Network Analysis & Synthesis (Including Linear System Analysis) Springer

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.

GATE 12 Year-wise Solved Paper (2010 to 2021) (Set of 2 Books) Engineering Mathematics & General Aptitude G.K Publications Pvt.Limited

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.

Objective Questions in Water Resources Engineering New Age International

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Objective Computer Science Elsevier

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Enhancing Future Skills and Entrepreneurship G.K Publications Pvt.Limited

The book describes the emergence of big data technologies and the role of Spark in the entire big data stack. It compares Spark and Hadoop and identifies the shortcomings of Hadoop that have been overcome by Spark. The book mainly focuses on the in-depth architecture of Spark and our understanding of Spark RDDs and how RDD complements big data's immutable nature, and solves it with lazy evaluation, cacheable and type inference. It also addresses advanced topics in Spark, starting with the basics of Scala and the core Spark framework, and exploring Spark data frames, machine learning using Mllib, graph analytics using Graph X and real-time processing with Apache Kafka, AWS Kenisis, and Azure Event Hub. It then goes on to investigate Spark using PySpark and R. Focusing on the current big data stack, the book examines the interaction with current big data tools, with Spark being the core processing layer for all types of data. The book is intended for data engineers and scientists working on massive datasets and big data technologies in the cloud. In addition to industry professionals, it is helpful for aspiring data processing professionals and students working in big

data processing and cloud computing environments.

Basic Elec Engg, 2E New Age International

This book presents new and original research on various topics on chemical engineering and technology including modeling and simulation, material synthesis, wastewater treatment, analytical techniques, and microreactors. The research presented here can be applied to technology in food, paper and pulp, polymers, petrochemicals, surface coatings, oil technology aspects, among other uses. Topics include modeling and simulation of chemical processes, process integration and intensification, separation processes, advances in unit operations and processes, chemical reaction engineering, fuel and energy, advanced materials, CFD and transport processes, and wastewater treatment.

Introduction to Nuclear and Particle Physics Objective Electronics &

Communication Engineering By GK Mithal

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 into 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 features make this book a self-sufficient and a good text book.

Mechanical Engineering New Age International

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

Objective Electrical Engineering By GK Mithal Arihant Publications India limited

This open access book presents the proceedings of the 3rd Indo-German Conference on Sustainability in Engineering held at Birla Institute of Technology and Science, Pilani, India, on September 16-17, 2019. Intended to foster the synergies between research and education, the conference is one of the joint activities of the BITS Pilani and TU Braunschweig conducted under the

auspices of Indo-German Center for Sustainable Manufacturing, established in 2009. The book is divided into three sections: engineering, education and entrepreneurship, covering a range of topics, such as renewable energy forecasting, design & simulation, Industry 4.0, and soft & intelligent sensors for energy efficiency. It also includes case studies on lean and green manufacturing, and life cycle analysis of ceramic products, as well as papers on teaching/learning methods based on the use of learning factories to improve students' problem-solving and personal skills. Moreover, the book discusses high-tech ideas to help the large number of unemployed engineering graduates looking for jobs become tech entrepreneurs. Given its broad scope, it will appeal to academics and industry professionals alike.

Basic Electrical Engineering (Be 104) PHI Learning Pvt. Ltd.

The book discusses the properties, characteristics, applications and limitations of engineering materials. Its emphasis is on materials available locally. It also incorporates useful data from the manufacturer's catalogues. The book gives a comprehensive coverage of the subject, with numerous illustrations for easy understanding. ISI standards are quoted wherever applicable. The book will serve as an excellent text for diploma, degree and AMIE students. It will also be a valuable reference book for industrial organizations.

Process Modeling, Simulation, and Environmental Applications in Chemical Engineering G.K Publications Pvt.Limited

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 emphasized. * 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 grasp 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.

Objective Electronics & Communication Engineering By GK Mithal V&S Publishers

How to develop robust solid oral dosage forms from conception to post-approval uses a practical and hands-on approach to cover the development process of solid oral dosage forms in one single source.

The book details all of the necessary steps from formulation through the post-approval phase and contains industry case studies, real world advice, and troubleshooting tips. By merging the latest scientific information with practical instructions, this book provides pharmaceutical scientists in formulation research and development with a concrete look at the key aspects in the development of solid oral dosage forms. Focuses on important topics, such as robustness, bioavailability, formulation design, continuous processing, stability tests, modified release dosage forms, international guidelines, process scale-up, and much more. Part of the Expertise in Pharmaceutical Process Technology series edited by Michael Levin. Discusses common, real-world problems and offers both theoretical and practical solutions to these everyday issues.

Biofuels Production G.K Publications Pvt.Limited

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.

Network Analysis New Age International 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

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A Financial Times Survey Gk Publications
This General Knowledge book on Geography contains multiple choice questions (MCQs) for competitive examinations. It contains 1000 plus multiple choice questions. Answer key has been provided. Every attempt has been made to ensure that the questions included are topical, and relevant to contemporary trend of various competitive and entrance exams and mind-set of question paper setters. This book is useful for all exams held by UPSC such as Civil Services, CDS, NDA, Railways, IBPS (Banking Services), SSC & other exams organized by State Public Service

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Electronics Devices And Circuits

Springer Nature

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

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