Mumbai University Fe Question Papers

This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The text provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

Enhance your programming skills to build exciting robotic projects Key Features Build an intelligent robot that can detect and avoid obstacles and respond to voice commands Detect and track objects and faces using OpenCV Control your robot with a GUI button designed using Qt5 Book Description C++ is one of the most popular legacy programming languages for robotics, and a combination of C++ and robotics hardware is used in many leading industries. This book will bridge the gap between Raspberry Pi and C/C++ programming and enable you to develop applications for Raspberry Pi. To follow along with the projects covered in the book, you can implement C programs in Raspberry Pi with the wiringPi library. With this book, you'll develop a fully functional car robot and write programs to move it in different directions. You'll then create an obstacle - avoiding robot using an ultrasonic sensor. Furthermore, you'll find out how to control the robot wirelessly using your PC/Mac. This book will also help you work with object detection and tracking using OpenCV, and guide you through exploring face detection techniques. Finally, you will create an Android app and control the robot wirelessly with an Android smartphone. By the end of this book, you will have gained experience in developing a robot using Raspberry Pi and C/C++ programming. What you will learn Install software in Raspberry Pi compatible with C++ programming Program the Raspberry Pi in C++ to run a motor Control RPi-powered robot wirelessly with your laptop or PC Program an RPi camera using OpenCV Control a Raspberry Pi robot with voice commands Implement face and object detection with Raspberry Pi Who this book is for This book is for developers, programmers, and robotics enthusiasts interested in leveraging C++ to build exciting robotics applications. Prior knowledge of C++ is necessary to understand the projects covered in this book.

This book focuses on the causes of starvation in general and famines in particular. The traditional analysis of famines is shown to be fundamentally defective, and the author develops an alternative analysis.

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.

Applied Chemistry-II is meant for the first year students of all branches engineering of Mumbai University. This book provides clear and sufficient understanding of the subject to the students. The contents are organized in such a way that the student can acquire the knowledge of applications of chemistry in engineering and technology. Each chapter has been covered in detail with principles of chemistry with its applied aspects and a variety of numerical problems wherever required. Additional questions and previous years university questions are included at the end of each chapter. A laboratory manual comprising nine experiments is appended at the end for proper understanding and there will be no need to refer other manuals.

"Containing the public messages, speeches, and statements of the President", 1956-1992.

The book consists of high-quality papers presented at the International Conference on Computational Science and Applications (ICCSA 2019), held at Maharashtra Institute of Technology World Peace University, Pune, India, from 7 to 9 August 2019. It covers the latest innovations and developments in information and communication technology, discussing topics such as soft computing and intelligent systems, web of sensor networks, drone operating systems, web of sensor networks, wearable smart sensors, automated guided vehicles and many more.

Nearly two thousand years ago a physician named Galen of Pergamon suggested that much of the variation in human behavior could be explained by an individual's temperament. Since that time, inborn dispositions have fallen in and out of favor. Based on fifteen years of research, Galen's Prophecy now provides fresh insights into these complex questions, offering startling new evidence to support Galen's ancient classification of melancholic and sanguine adults. Integrating evidence and ideas from biology, philosophy, and psychology, Jerome Kagan examines the implications of the idea of temperament for aggressive behavior, conscience, psychopathology, and the degree to which each of us can be expected to control our deepest emotions.

Applied MathematicsTata McGraw-Hill EducationApplied Chemistry:I. K. International Pvt Ltd

Proceedings of the NATO Advanced Study Institute, Çesme, Izmir, Turkey, 27 June-8 July, 1988

This sixth edition of 'Sociology' has been updated to meet the demands of the new subject core for A level. Comprehensive in its coverage, it includes material on the latest topics of sociological debate.

This book caters to the need of first year engineering students desiring to achieve a firm footage in the subject Engineering Mechanics. It aims to support the learning of Statics and Dynamics with theoretical material, applications and a sufficient number of solved sample problems which have been selected from examination question papers of University of Mumbai and set in a sequential order. This text is a sincere attempt to make the subject simple and easy to understand.

This second edition, extensively revised and updated, continues to offer sound, practically-oriented, modularized coverage of the full spectrum of fundamental topics in each of the several major areas of electrical and electronics engineering. Circuit Theory Electrical Measurements and Measuring Instruments Electric Machines Electric Power Systems Control Systems Signals and Systems Analog and Digital Electronicsincluding introduction to microcomputers The book conforms to the syllabi of Basic Electrical and Electronic Sciences prescribed for the first-year engineering students. It is also an ideal text for students pursuing diploma programmes in Electrical Engineering. Written in a straightforward style with a strong emphasis on primary principles, the main objective of the book is to bring an understanding of the subject within the reach of all engineering students. What is New to This Edition : Fundamentals of Control Systems (Chapter 24) Fundamentals of Signals and Systems (Chapter 25) Introduction to Microcomputers (Chapter 32) Substantial revisions to chapters on Transformer, Semiconductor Diodes and Transistors, and Field Effect Transistors Laplace Transform (Appendix B) Applications of Laplace Transform (Appendix C) PSpice (Appendix E) key Features : Numerous solved examples for sound conceptual understanding End-of-chapter review questions and numerical problems for rigorous practice by students Answers to all end-of-chapter numerical problems An objective type Questions Bank with answers to hone the technical skills of students for viva voce and preparation for competitive examinations.

Computer Graphics and Virtual Reality is a compendium of articles and papers that were presented at CGVR '13, an international conference that serves researchers, scholars, professionals, students, and academicians. Selected topics include: * Animation And Related Methodologies * Virtual Reality + Computer Graphics + Related Methods

The book provides conceptual understanding of essential concepts in business life. It details the foundations of business economics with special emphasis on demand analysis and consumer behaviour. It also discusses analysis of production and cost of the firm, market structures and pricing of products, factor pricing and income distribution and concludes with the discussion of capital budgeting. Based on the author's extensive teaching experience, the book champions a collaborative approach to delivering an appropriate textbook that is curriculum relevant.

div="" style="" This book comprises select proceedings of the 46th National Conference on Fluid Mechanics and Fluid Power (FMFP 2019). The contents of this book focus on aerodynamics and flow control, computational fluid dynamics, fluid structure interaction, noise and aero-acoustics, unsteady and pulsating flows, vortex dynamics, nuclear thermal hydraulics, heat transfer in nanofluids, etc. This book serves as a useful reference beneficial to researchers, academicians and students interested in the broad field of mechanics. ^

This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple,lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way.The book comprise five chapters(excluding basic concepts)in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th.Semester Mechnical,Production,Automobile Engineering and 2nd semester Mechnical disciplines of Anna University.

This textbook has been designed to provide necessary foundation in optics which would not only acquaint the student with the subject but would also prepare for an intensive study of advanced topics in optics at a later stage. With an emphasis on concepts, mathematical derivations have been kept at the minimum. This textbook has been primarily written for undergraduate students of B.Sc. Physics and would also be a useful resource for aspirants appearing for competitive examinations.

This book has been designed as per the Mathematics - 2 course offered in the first year to the undergraduate engineering students of GTU. The book provides in-depth coverage and complete explanation of topics which will help in easy understanding of the basic concepts. The methodical approach followed in the book will enable readers to develop a logical outlook for the course. Salient Features: ? Complete coverage of the GTU syllabus ? Solutions of GTU examination questions within chapters ? Diverse pedagogy o Chapter outline, Points to remember etc. o Solved examples within chapters: 649 o Unsolved problems within chapters: 561

The past decade has witnessed a vigorous growth in activities toward the development of a variety of biomedical devices ranging from the simple A-V shunt to the complex artificial heart. Re search and development teams have been created comprising engi neers, material scientists and clinicians and, perhaps for the first time, such groups are collaboratively bringing their respec tive talents to bear on problems associated with defects in the human organism. These collaborations have resulted in a prolifera tion of new information and a rapid and continuing redefinition of the frontiers of progress. It was to keep pace with these changes, and provide an updated view of the state of the art that this meeting was conceived. The present volume marks the publication of the proceedings of the Johnson & Johnson Symposium held in Morristown, New Jersey, on July 11 and 12, 1974. It surveys the applications of polymers to medical and surgical problems and contains discus sions on the biocompatibility of polymers, polymers as biomate rials, and the use of polymers in prosthetic devices and drug re lease systems. In addition, the Symposium offers recent perspec tives on the critical problems of the material-tissue interface, the design criteria for silicone-based systems, and the varied use of polymers in artificial hearts, kidneys, eyes and lungs.

The Importance Of Environmental Studies Cannot Be Disputed Since The Need For Sustainable Development Is A Key To The Future Of Mankind. Recognising This, The Honourable Supreme Court Of India Directed The Ugc To Introduce A Basic Course On Environmental Education For Undergraduate Courses In All Disciplines, To Be Implemented By Every University In The Country. Accordingly, The Ugc Constituted An Expert Committee To Formulate A Six-Month Core Module Syllabus For Environmental Studies. This Textbook Is The Outcome Of The Ugc S Efforts And Has Been Prepared As Per The Syllabus. It Is Designed To Bring About An Awareness On A Variety Of Environmental Concerns. It Attempts To Create A Pro-Environmental Attitude And A Behavioural Pattern In Society That Is Based On Creating Sustainable Lifestyles And A New Ethic Towards Conservation. This Textbook Stresses On A Balanced View Of Issues That Affect Our Daily Lives. These Issues Are Related To The Conflict Between Existing `Development Strategies And The Need For `Conservation . It Not Only Makes The Student Better Informed On These Concerns, But Is Expected To Lead The Student Towards Positive Action To Improve The Environment. Based On A Multidisciplinary Approach That Brings About An Appreciation Of The Natural World And Human Impact On Its Integrity, This Textbook Seeks Practical Answers To Make Human Civilization Sustainable On The Earth S Finite Resources. Attractively Priced At Rupees One Hundred And Fifteen Only, This Textbook Covers The Syllabus As Structured By The Ugc, Divided Into 8 Units And 50 Lectures. The First 7 Units, Which Cover 45 Lectures Are Classroom Teaching-Based, And Enhance Knowledge Skills And Attitude To Environment. Unit 8 Is Based On Field Activities To Be Covered In 5 Lecture Hours And Would Provide Students With First Hand Knowledge On Various Local Environmental Issues.

This book aims to provide a complete coverage of topics to meet the needs of first year undergraduate engineering students as per revised syllabus of Mumbai University. It enables students to develop an understanding of the basic concepts of the theory. All topics are written in easy language and are put point wise. For most of the students solving numerical is big problems, this difficulty is simplified by including several solved numerical in every chapter. Author's long experience in teaching the subject will ensure that the book will enthuse the students to assimilate the basic understanding of engineering physics and help them understand the concepts of various branches of engineering in the higher semesters. Key Features • Complete coverage of revised syllabus • Numerous solved examples • Previous years university questions included • Simple diagrams and easy language

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

This book has been developed with a focus on the need to demystify the subject and make it easy for students to grasp the principles and details involved, and make it easily understandable to beginners exposed to the subject for the first time. An attempt has been made to explain things in a logical progression, in the simplest possible way so that neophytes may quickly grasp the concepts and methodology. A novel approach in the book is the illustrative use of computers with TORA package, as a problem-solving tool. In actual practice, situations arise with large and complex problems that are difficult to solve. At such times, using computers to solve problems gives fast and more accurate results. The chapters are arranged so as to progressively explain the workings of various models in actual practice through step-by-step procedures that so simplify and solve them, that even students from a non-mathematics academic background will grasp them quickly. Linear programming, the most powerful tool for managerial decision-making is covered elaborately, including thorough discussion of various LP methods and LP solutions, Duality in LP problems, sensitivity analysis, etc. Models in the book also use Linear Programming to reach solutions including those relating to transportation and transshipment, assignment, and Game Theory&illustrated with screen-shots of a computer with a TORA package. Readers whether students, business executives, managers, researchers and academicians will find that the insights and knowledge obtained from the book will stand them in good stead in both academic as well as occupational pursuits.