

Mechanical Engineering Nirali Prakashan

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Management functions are essential parts of the industry. Similarly this subject is an essential input for diploma engineering students. It is applicable to all branches with no exception. The concept of management and its industrial application will definitely add managerial angle making students techno-commercial professionals. This book is intended for giving such input to all the first year diploma engineering students.

Unit 1: Interference, Diffraction and Its Engineering Applications, Unit 2: Sound Engineering, Unit 3: Polarization And Laser, Unit 4: Solid State Physics, Unit 5: Wave Mechanics, Unit 6: Superconductivity And Physics Of Na

EMERGING TRENDS IN MECHANICAL ENGINEERING (22652)

Engineering Rock Mechanics

Engineering Physics

Mechanics of Materials

Tribology

Properties and Handling of Particulate Solids, Conveyors, Mixing of Solids and Pastes, Size Reduction, Mechanical Separations: Screening, Filtration, Separation Based on Motion of Particulate through the Fluids, Mixing and Agitation, Fluidization, Beneficiation Process

Unit I Laws of thermodynamics Unit II Entropy and ideal gas Unit III Thermodynamic cycles and availability Unit IV Properties of pure substances and thermodynamic vapour cycle Unit V Steam Generators Unit VI Psychrometry

Advanced Manufacturing Process

Industrial Fluid Power (Subject Code MEC 605)

Thermodynamics

Textbook of Thermal Engineering

Fundamentals of Electrical Engineering I

The 1st edition of book entitled "Design of Machine Elements" for IIIrd Year Diploma, Semester VI in Diploma in Mechanical Engineering Group as per the syllabus prescribed by SBTE. We have observed the students facing extreme difficulties in understanding the basic principles and fundamental concepts without adequate solved problems along with the text.

To meet this basic requirement of students, sincere efforts have been made to present the subject matter with frequent use of figures and lots of numerical examples.

Engineering rock mechanics is the discipline used to design structures built in rock. These structures encompass building foundations, dams, slopes, shafts, tunnels, caverns, hydroelectric schemes, mines, radioactive waste repositories and geothermal energy projects:

in short, any structure built on or in a rock mass. Despite the variety of projects that use rock engineering, the principles remain the same. Engineering Rock Mechanics clearly and systematically explains the key principles behind rock engineering. The book covers the basic rock mechanics principles; how to study the interactions between these principles and a discussion on the fundamentals of excavation and support and the application of these in the design of surface and underground structures. Engineering Rock Mechanics is recommended as an across-the-board source of information for the benefit of anyone involved in rock mechanics and rock engineering.

Introduction to Process Calculations Stoichiometry

Engineering Mathematics - III:

Mass Transfer-II

Systems in Mechanical Engineering

Theory of Machines and Mechanisms I.

A basic text for engineering students and practicing engineers dealing

with design problems in all engineering disciplines. Optimization algorithms are developed through illustrative examples. Includes numerical results on the efficiencies of various algorithms, comparison of constrained-optimization methods, and strategies for optimization studies. Also includes several actual case studies.

Unit I Structure of metals and materials Unit II Mechanical behaviours of metal and materials Unit III Destructive and non destructive testing Unit IV metals corrosions and its prevention Unit V Surface Modification methods Unit VI Powder metallurgical technology

MEC606)

Management Accounting

DIGITAL ELECTRONICS AND MICROCONTROLLER APPLICATIONS (22421)

Theory of Machines

Unit Operations-II

Engineering Mathematics-III has been mapped to the syllabus of the third-semester mathematics paper taught to the students of electrical engineering, electrical and electronics engineering and electronics and communication engineering in Rajasthan Technical University, Kota. The book, a balanced mix of theory and solved problems, focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed for engineers. The last three years' solved question papers have been included for the benefit of the students.

Introduction - Conduction - Convection - Radiation - Heat Exchange Equipments -

Evaporation - Diffusion - Distillation - Gas Absorption - Liquid Liquid Extraction -

Crystallisation - Drying - Appendix I Try yourself - Appendix II Thermal conductivity data -

Appendix III Steam tables

DESIGN OF MACHINE ELEMENTS (Subject Code MEC 604)

An Introduction to the Principles

Fundamentals and Applications

Unit Operations-i Fluid Flow and Mechanical Operations

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This edition of Design of Machine Elements has been revised extensively to bring in several new topics and update other contents. Plethora of solved examples and practice problems make this an excellent offering for the students and the teachers. Highlight.

This book aims at providing a complete coverage of the needs of First Year students as per S.B.T.E's. revised syllabus. The entire revised syllabus has been covered keeping in view the non-availability of the complete subject matter through a single source. The difficult articles have been explained in a simple language providing, wherever necessary, neat and well explained diagrams so that even an average student may be able to follow it independently. A sufficient number of solved examples and problems with answers and SBTE questions are given at the end of each topic. Formulae specifying symbol meaning are enlisted before solving the examples.

Engineering Mechanics 2

Material Science

Understanding Engineering Mathematics

Safety and Services Management

Engineering Optimization

Studying engineering, whether it is mechanical, electrical or civil relies heavily on an understanding of mathematics. This new textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them to solve real-life engineering problems. It deliberately starts at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to the level required. Students who have not studied mathematics for some time will find this an excellent refresher. Each chapter starts with the basics before gently increasing in complexity. A full outline of essential definitions, formulae, laws and procedures are introduced before real world situations, practicals and problem solving demonstrate how the theory is applied. Focusing on learning through practice, it contains examples, supported by 1,600 worked problems and 3,000 further problems contained within exercises throughout the text. In addition, 34 revision tests are included at regular intervals. An interactive companion website is also provided containing 2,750 further problems with worked solutions and instructor materials

While writing the book, we have continuously kept in mind the examination requirements of the students preparing for U.P.S.C.(Engg. Services)and A.M.I.E.(I)examinations.In order to make this volume more useful for them,complete solutions of their examination papers up to 1975 have also been included.Every care has been taken to make this treatise as self-explanatory as possible.The

subject matter has been amply illustrated by incorporating a good number of solved,unsolved and well graded examples of almost every variety.

Fundamentals of Electrical Engineering

Mechanical Operations

Engineering Mathematics - III

ENGINEERING CHEMISTRY-II (BASIC CHEMISTRY)

Robotics

Now in its second English edition, Mechanics of Materials is the second volume of a three-volume textbook series on Engineering Mechanics. It was written with the intention of presenting to engineering students the basic concepts and principles of mechanics in as simple a form as the subject allows. A second objective of this book is to guide the students in their efforts to solve problems in mechanics in a systematic manner. The simple approach to the theory of mechanics allows for the different educational backgrounds of the students. Another aim of this book is to provide engineering students as well as practising engineers with a basis to help them bridge the gaps between undergraduate studies, advanced courses on mechanics and practical engineering problems. The book contains numerous examples and their solutions. Emphasis is placed upon student participation in solving the problems. The new edition is fully revised and supplemented by additional examples. The contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges. Volume 1 deals with Statics and Volume 3 treats Particle Dynamics and Rigid Body Dynamics. Separate books with exercises and well elaborated solutions are available.

1 Linear differential equations with constant coefficients 2 Simultaneous linear Differential Equations 3 Applications of Differential Equations 4 System of linear equations 5 Numerical solution of ordinary differential equations 6 Statistics correlation and regression 7 Probability and probability distributions 8 Vector algebra 9 Vector differentiation 10 Vector integration 11 Application of vectors to fluid mechanics 12 Application of partial differential equations INDUSTRIAL ENGINEERING AND MANAGEMENT INDUSTRIAL ENGINEERING AND QUALITY CONTROL Course Code 22657

Design of Machine Elements

Chemical Reaction Engineering II

Methods and Applications

1 Non- Traditional Machining 2 Introduction to CNC 3 Other Machining Methods 4 Milling And Gear Cutting 5 Surface Finishing 6 Maintenance of Machine Tools Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering.

MEASUREMENT AND AUTOMATION (Subject Code

Theory of Machines and Mechanisms - II

Basic Mechanical Engineering (Fe Sem. I, Su)

Cad/cam and Automation

Mechanical engineering, as its name suggests, deals with the mechanics of operation of mechanical systems. This is the branch of engineering which includes design, manufacturing, analysis and maintenance of mechanical systems. It combines engineering physics and mathematics principles with material science to design, analyse, manufacture and maintain mechanical systems. This book covers the field requires an understanding of core areas including thermodynamics, material science, manufacturing, energy conversion systems, power transmission systems and mechanisms. This book includes basic knowledge of various mechanical systems used in day to day life. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.