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Engineering Mathematics-II: For WBUT Basic Electrical And Electronics Engineering I (For Wbut) Engineering Mathematics-I (For Wbut) Engineering Physics I: For WBUT Mathematics-I Calculus and Linear Algebra (BSC-105) (For Computer Science & Engineering Students only) Engineering Physics Engineering Chemistry I (WBUT), 3rd Edition Textbook of Engineering Mathematics Volume - II (For WBUT) Textbook of Engineering Mathematics Volume - I (For WBUT) Numerical Methods in Engineering with Python 3 Software Engineering (WBUT), 2nd Edition Engineering Mathematics - I: For WBUT Engineering Physics Practical Mathematics-II (Calculus, Ordinary Differential Equations and Complex Variable) Biology for Engineers Elements of Engineering mechanics Basic Environmental Engineering and Elementary Biology (WBUT) Computer Organization Engineering Mathematics Engineering Mathematics-II Databases and Mobile Computing Engineering Thermodynamics and Fluid Mechanics (For MAKAUT), 3rd Edition Engineering Mathematics I, (WBUT) Manufacturing Processes

Fundamentals of Computing and Programming in C The
IITians Engineering Mathematics II (WBUT), 2Nd Edition
Mathematics 1 (ASTU, Assam) Principles of Electronic
Devices & Circuits C Language And Numerical Methods
Engineering Mathematics Volume Ii Applied Physics II
(University of Mumbai) Operating System (WBUT)
ENGINEERING CHEMISTRY (WBUT) HvdC
Transmission Engineering Mathematics – Volume Ii
Computer Concepts and Programming in C Engineering
Graphics and Design Thermal Engineering Polymer
Physics

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Biology for Engineers is an interdisciplinary textbook designed for the students of various engineering streams to appreciate the link between biological science and engineering. This is a completely revised book in line with 'Outcome Based Education (OBE)' that is currently being followed by most universities. Also, the engineering drawings in the book have been prepared using the latest version of AutoCAD. The book has all the assessment tools like assessment exercise, short answer questions with answers, fill in the blanks and multiple choice questions (MCQs). A special feature of this book is that free downloads of (i) additional learning material, (ii) PowerPoint presentations and (iii) video lectures are available on the author's website www.EGlive.in. Engineering Chemistry I has been primarily written for first year B.Tech students but can also be used by BSc and MSc students to clarify their fundamental knowledge. The book begins with the basic theories of chemistry in various disciplines in order to provide a necessary background for dealing with a number of different physiochemical phenomena. Key Features 1. Brief discussion of the concepts 2. Coverage of syllabus in totality 3. Examination-oriented approach 4. Large number of solved problems 5. Solution to previous year's question papers 6. Exercises at the end of each chapter Provides an introduction to numerical methods for students in engineering. It uses Python 3,

an easy-to-use, high-level programming language. Operating System is an insightful work that elaborates on fundamentals as well as advanced topics of the discipline. It offers an in-depth coverage of concepts, design and functions of an operating system irrespective of the hardware used. With neat illustrations and examples and presentation of difficult concepts in the simplest form, the aim is to make the subject crystal clear to the students, and the book extremely student-friendly. The book caters to undergraduate students of WBUT, who would find the conceptual discussions highly informative and enriching. Tailored as a guide for self-paced learning the book equips budding system programmers with the right knowledge and expertise.

Key Features

- Case studies of Linux and Windows 2000 to put theory concepts into practice
- Points to Remember boxes for a quick recap
- Check your Progress questions running along the text to test comprehension
- Summary of the chapter, a list of key terms and insightful questions as retention aids
- Past question papers with solution to equip students for future examinations

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. C Language Is The Popular Tool Used To Write Programs For Numerical Methods. Because Of The Importance Of Numerical Methods In Scientific Industrial And Social Research.C Language And Numerical Methods Is Taught Almost In All Graduate And Postgraduate Programs Of Engineering As Well As Science. In This Book, The Structures Of C Language Which Are Essential To Develop Numerical Methods Programs Are First Introduced In Chapters 1 To 7. These Concepts Are Explained With Appropriate Examples In A Simple Style. The Rest Of The Book Is Devoted For Numerical Methods. In Each Of The Topic On Numerical Methods, The Subject Is Presented In Four Steps, Namely, Theory, Numerical Examples And Solved Problems, Algorithms And Complete C Program With Computer Output Sheets. In Each Of These Chapters, A Number Of Solved Problems And Review Questions Are Given As A Drill Work On The Subject. In Appendix The Answers To Some Of The Review Questions Are Given. Fundamentals of Computing and Programming in C is specifically designed for first year engineering students

covering the syllabus of various universities. It provides a comprehensive introduction to computers and programming using C language. The topics are covered sequentially and blended with examples to enable students to understand the subject effectively and imbibe the logical thinking required for software industry applications.

KEY FEATURES

- Foundations of computers
- Contains logical sequence of examples for easy learning
- Efficient method of program design
- Plenty of solved examples
- Covers simple and advanced programming in C

Mathematics-I for the paper BSC-105 of the latest AICTE syllabus has been written for the first semester engineering students of Indian universities. Paper BSC-105 is exclusively for CS&E students. Keeping in mind that the students are at the threshold of a completely new domain, the book has been planned with utmost care in the exposition of concepts, choice of illustrative examples, and also in sequencing of topics. The language is simple, yet accurate. A large number of worked-out problems have been included to familiarize the students with the techniques to solving them, and to instill confidence. Authors' long experience of teaching various grades of students has helped in laying proper emphasis on various techniques of solving difficult problems. 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 Database and Mobile Computing brings together in one place important contributions and up-to-date research results in this important area. Databases and Mobile Computing serves as an excellent reference, providing insight into some of the most important research issues in the field. In this book a large number of problem have been solved to give the students an easier understanding of the subject. Engineering Mathematics I: For WBUT is designed as per the specific requirements of the first year first semester paper offered to all the students of engineering and technology in West Bengal University of Technology. With an emphasis on problem- solving

techniques, engineering application, as well as detailed explanation of the mathematical concept, this book will give the students a complete grasp of the mathematical skills that are needed by engineers. The focus on practical rather than theory ensures complete mastery over the topics covered. Mathematics-II (Calculus, Ordinary Differential Equations and Complex Variable) for the paper BSC-104 of the latest AICTE syllabus has been written for the second semester engineering students of Indian universities. Paper BSC-104 is common for all streams except CS&E students. The book has been planned with utmost care in the exposition of concepts, choice of illustrative examples, and also in sequencing of topics. The language is simple, yet accurate. A large number of worked-out problems have been included to familiarize the students with the techniques to solving them, and to instil confidence. Authors' long experience of teaching various grades of students has helped in laying proper emphasis on various techniques of solving difficult problems. Mathematics 1 has been written for the first semester students of all branches of engineering courses for ASTU. The entire book has been developed with an eye on the physical interpretations of concepts, application of the notions in engineering and technology, and precision through its solved examples. Author's long experience of teaching at various levels has played an instrumental

role towards this end. An emphasis on various techniques of solving complex problems will be of immense help to the students. Key Features

- Brief but just discussion of theory
- Examination Oriented approach
- Techniques of solving difficult questions
- Solution for a large number of technical problems

Engineering Mathematics I has been written for the first year engineering students of WBUT. Starting with the basic notions of matrices and determinants, the entire book has been developed keeping in mind the physical interpretations of mathematical concepts, application of the notions of the in engineering and technology and precision through solved examples. Authors' long experiences of teaching various grades of students have played an instrumental role towards this end. An emphasis on various techniques of solving difficult problems will be of immense help to the students. Books in this series have been specially designed to meet the requirements of a large spectrum of engineering students of WBUT-those who find learning the concepts difficult and want to study through solved examples and those who wish to study in the traditional way. Modern-day engineers constantly encounter applications of thermodynamics and fluid mechanics while working with engineering designs and structures, converting the power of heat and fluid into mechanical work-from early steam engines to hydroelectricity and supersonic jets.

Equipping budding engineers with state-of-the-art technology, Engineering Thermodynamics and Fluid Mechanics provides an in-depth study of the two disciplines. Key Features

1. Summary at the end of each chapter for quick recapitulation
2. Large number of MCQs, review questions and numerical problem sets for self-assessment
3. Five model test papers for practice
4. Solution to past ten years' university papers

"The subject matter of the book has been organized in two parts covering the syllabi of both first and second semester."--Pref.

The subject on Computer Concepts and Programming in C (or with the name Fundamentals of Computer and Programming in C) is one of the core courses in various undergraduate and postgraduate programmes of various institutions and universities of India. This book is designed to serve as textbook for those programmes of study. While writing the book, special emphasis is given to keep the language very simple and lucid; level of presentation is kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease. 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. Engineers face mathematical dilemmas every day—be it simple arithmetic or complex differential equations. To bail out

engineers in such situations, a thorough understanding of applied mathematical concepts is quintessential. Engineering Mathematics II comes up with this and more—from discussing graph theory to solving improper integrals; from working out linear differential equations to understanding the Laplace transforms, the book is an exhaustive cache of solved numerical examples to enhance learning and problem-solving skills in students. The book, with its simple calculations and derivations, completely meets the requirements of II semester BE/BTech students who aspire to master mathematics. Keeping the curriculum at focus, the authors offer numerous problem sets and model question papers, which serve as a great reference work for course study as well as for getting a real-life experience of competitive exams. With this book as guide, students will find tackling complex concepts and problems an easy task. It is a great all-time companion for budding engineers.

Key Features

1. Lucid, well-explained concepts with solved examples
2. Numerical problem sets for self-assessment
3. Large number of MCQs and model test papers
4. Past examination papers with answers

Pearson introduces the first edition of Thermal Engineering a complete offering for the undergraduate engineering students. With lucid exposition of the fundamental concepts along with numerous worked-out examples and well-labeled detailed illustrations, this book provides a holistic

understanding of the subject. The content in the book encompasses applied thermodynamics, power plant engineering, energy conversion and management, internal combustion engines, turbomachinery, gas turbines and jet propulsion and refrigeration and air-conditioning taught at different levels of the curriculum.

The IITians: The Story Of A Remarkable Indian Institution And How Its Alumni Are Reshaping The World IIT (Indian Institute Of Technology) Is India S Biggest And Most Powerful Brand, And Arguably The Toughest And Most Influential Engineering School In The World. Since The First IIT Was Set Up In The 1950S, Thousands Of Initiates Have Walked Out Of The Campus Gates In Kharagpur, Mumbai, Chennai And Elsewhere To Become Leaders In Their Chosen Fields. In India They Head Many Of The Biggest And Most Admired Professionally Managed Companies. Abroad, They Lead Giant Corporations, And Their Feats Figure In The Folklore Of Silicon Valley. The Power That The Alumni Of This One Bunch Of Undergraduate Schools Wields In Business, Academe And Research Is Comparable To That Of Cambridge And Oxford In The Heyday Of The British Empire. Sandipan Deb, Himself An IITian, Delves Into His Own Experience And Those Of Scores Of Alumni To Try And Explain What Makes IITians Such Outstanding Achievers. In Part It May Be That They Cannot Be Anything Else: Only One In Every Hundred

Applicants Gets Admitted. Harvard, In Comparison, Takes One In Eight. The Unique Village-Like Campuses Peopled Only By The Super-Bright And The Intensely Competitive Hone The Iitians Skills Further. No Wonder Then That When They Leave The Campus, Iitians Look Upon Themselves As Special People, Capable Of Competing In Their Field With The Best In The World. And, As Their Record Shows, Succeeding. In this book we have included more examples, tutorial problems and objective test questions in almost all the chapters. The chapter on Optoelectronic Devices has been expanded to include more application examples in the area of optical fibre networks. The chapter on Regulated Power Supply carries more detailed study of fixed positive-Fixed negative and adjustable-linear IC voltage regulators as well as switching voltage regulator. The topic on OP-AMPs has been separated from the chapter on integrated Circuits. A new chapter is prepared on OP-AMPs and its Applications. The Chapter on OP-AMPs and its Applications includes OP-AMP based Oscillator circuits, active filters etc. This book is the result of my teaching efforts during the last ten years at the Royal Institute of Technology. The purpose is to present the subject of polymer physics for undergraduate and graduate students, to focus the fundamental aspects of the subject and to show the link between experiments and theory. The intention is not to present a compilation

of the currently available literature on the subject. Very few reference citations have thus been made. Each chapter has essentially the same structure: starting with an introduction, continuing with the actual subject, summarizing the chapter in 300-500 words, and finally presenting problems and a list of relevant references for the reader. The solutions to the problems presented in Chapters 1-12 are given in Chapter 13. The theme of the book is essentially polymer science, with the exclusion of that part dealing directly with chemical reactions. The fundamentals in polymer science, including some basic polymer chemistry, are presented as an introduction in the first chapter. The next eight chapters deal with different phenomena (processes) and states of polymers. The last three chapters were written with the intention of making the reader think practically about polymer physics. How can a certain type of problem be solved? What kinds of experiment should be conducted? This book would never have been written without the help of my friend and adviser, Dr Anthony Bristow, who has spent many hours reading through the manuscript, criticizing the content.

Module-I: Ordinary Differential Equation | Differential Equations Of First Order And Higher Degree| Module-II: Ordinary Differential Equation - Higher Order And Firstdegree| Module-III: Graph Theory | Matrixrepresentation Of A Graphs| Module-IV: Trees| Module-V: Improper Integrals | Laplace

Transform| Inverse Laplace Transform | Question Paper (2011)

Innovations in software engineering have ushered in an era of wired technology. We are constantly surrounded by the products of this revolution. With this book, the author has created a resourceful cache of latest information for aspiring software engineers, preparing them for a productive industry experience. Elaboration on concepts of software development and engineering, the book gives an insightful view of the fundamentals of system design, coding and documentation, software metrics, management and cost estimation. Based upon the updated university curriculum, this book is a student-friendly work that explains difficult concepts with neat illustrations and examples. Topic wise discussions on system testing and computer-aided software engineering go a long way in equipping budding software engineers with the right knowledge and expertise. This is a great book for self-based learning and for competitive examinations. It comes with a glossary of technical terms.

Key Features

- Lucid, well-explained concepts with solved examples
- Complete coverage of the updated university syllabus
- Chapter-end summaries and questions for quick review
- Relevant illustrations for better understanding and retention
- Glossary of technical terms
- Solution to previous years' university papers

The book 'Basic Environmental Engineering and

Elementary Biology' has been written for the engineering students. It starts with basic concepts of ecology and concerns on environment. It then discusses how the spiraling rate of population growth and the requirements of human beings have led to large-scale deforestation, depletion of the ozone layer, creation of greenhouse effect, acid rain, smog and environmental pollution. The book equips students to manage environment-related issues by showing how technology can be used to control these problems. This well thought-out book on one of the most talked about issues today, can serve as a ground for future environmentalists. It can also be a highly useful reference work for those interested in working towards a better and cleaner environment. Fundamental aspects of environment principles have been explained in great detail, which can be used to manage environment and restore nature's balance.

Module-I: Matrix I, Matrix II | Module-II: Successive Differentiation | Mean Value Theorems & Expansion Of Functions | Reduction Formulae: Indefinite And Definite integrals | Module-III Introduction To Functions Of Several variables | Partial Differentiation | Extrema: Maxima , Minima And Saddle Points | Concept Of Multiple Integrals:

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