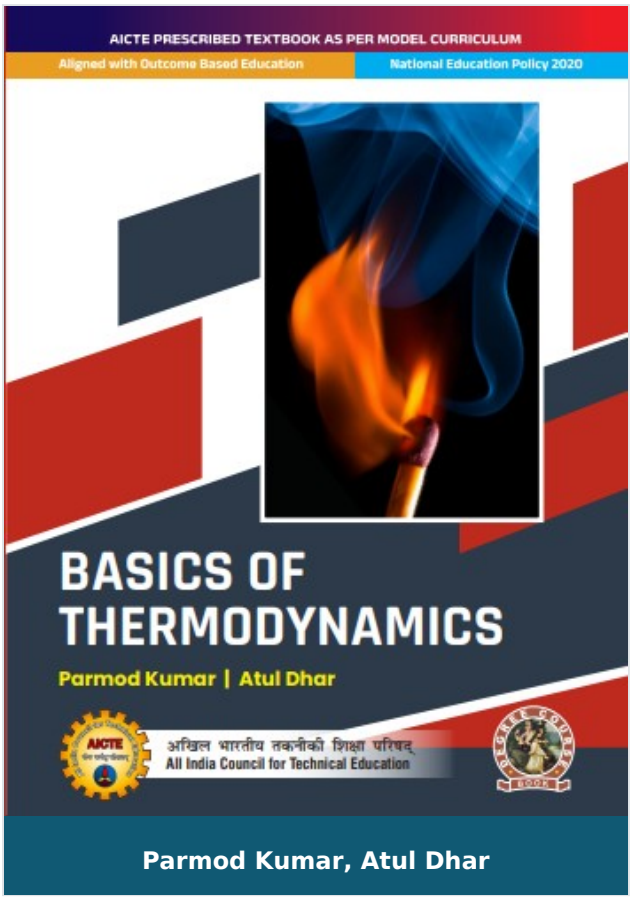


Basics of Thermodynamics

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Product Description

Basics of Thermodynamics

This book titled Basics of Thermodynamics introduces the subject from the theoretical concepts to its applications in different energy conversion devices. The content of the book is designed as per the model curriculum of AICTE and mandates of the National Education Policy (NEP) 2020. The content of the book is described in a manner that beginners can follow the concepts in comfortable and cohesive manner. The content of the book is developed for entry level undergraduate students; however, it can be used by practicing engineers and graduate students for the comprehensive learning of the subject.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Introduction and fundamental concepts
- Energy and the First Law of Thermodynamics
- Properties of Pure Substance
- Energy Analysis for Control Volumes
- Second Law of Thermodynamics
- Entropy
- Exergy
- Basic Power and Refrigeration Cycles
- Appendices
- CO and PO Attainment Table
- Index

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Author

Parmod Kumar

Dr. Parmod Kumar Assistant Professor, School of Mechanical and Materials Engineering, IIT Mandi Dr.

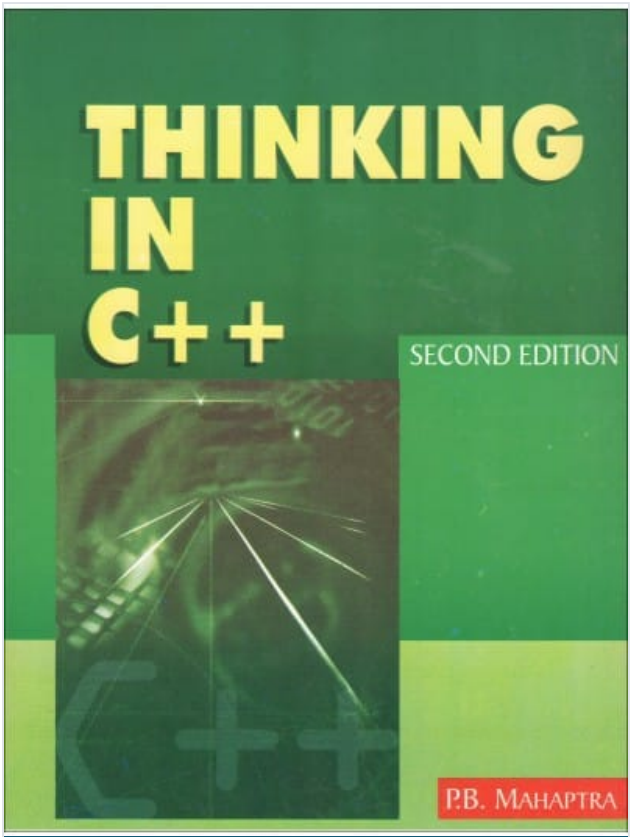
Atul Dhar

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P.B. Mahapatra

Thinking in C++

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The style and text has been vastly improved, it now covers most of the additions and modifications made in the language. New chapters included on object oriented programming and STL, which will help the programming to develop efficient software. Presentation of the book has been kept simple, so that even the beginner to the language can derive maximum benefit out of it. Numerous examples have been interspersed throughout in the support of the text.

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Table Of Contents

- Fundamentals of C++
- Mathematical and Relational Expression
- Flow Control in C++
- Loops in C++
- Fundamentals of C++
- Structures and Unions
- Data- Its Scope and Visibility
- Objects & Classes
- Preprocessor
- Arrays in C++
- Pointers in C++
- Inheritance
- More on C++ Pointers
- More on Objects and Classes
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- Some Useful Classes
- C++ as Standardized by ANSI/ISO
- Introduction to the STL

Author

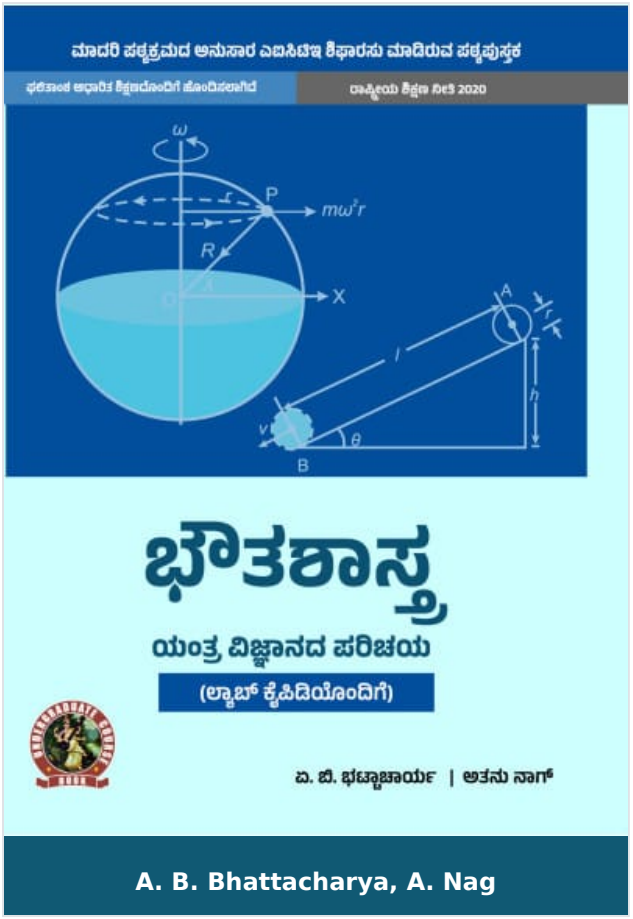
P.B. Mahapatra

Dr. P.B. Mahapatra, after an illustrious student career in I.I.T., Kharagpur, joined the faculty of Punjab Engineering College in 1970 as Assistant professor in the department of production Engineering. Since then he has served the institute in various capacities and at the moment serving as professor in the department of mechanical Engineering. His area of interest includes production Management, Industrial Engineering, quality control and operations research. His first books was Thinking in C published in 1996. The success of the book all over the country and numerous requests from potential readers for more such books prompted him to write a number of books on computer science. Other books authored by him include Thinking in C++, Thinking in Java, Graphic under C++ and Computer Aided production Management. Two more volumes, Essentials of information practice and essentials of computer Science have been authored by him for school children, written strictly according to the CBSE Syllabus, these are also very popular in school.

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Physics (Introduction to Mechanics)

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Product Description

Physics: Introduction to Mechanics has been written for the first year students of B Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student’s needs. Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Mechanics to tackle 21 century and onward engineering challenges and address the related questions.

Some Salient features of the book:

1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.

2. To develop knowledge on critical questions solved and supplementary problems covering all type of medium and advanced level

3. Under problems in a very logical and systematic manner.

4. Some essential information for the user the heading “Know more” for clarifying some basic information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.

5. Constructive manner of presentation so that an Engineering degree students can prepare to work in different sectors or in national laboratories at the very forefront of technology.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- Guidelines for Teachers
- Guidelines for Students
- Introductory Mechanics
- Conservation Principles
- Dynamics of Particles
- Oscillations
- Rotational Motion
- Dynamics of a Right Body
- Table of Physical Constants
- Appendices
- Annexures
- References for Further learning
- CO and PO Attainment Table
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A. B. Bhattacharya

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

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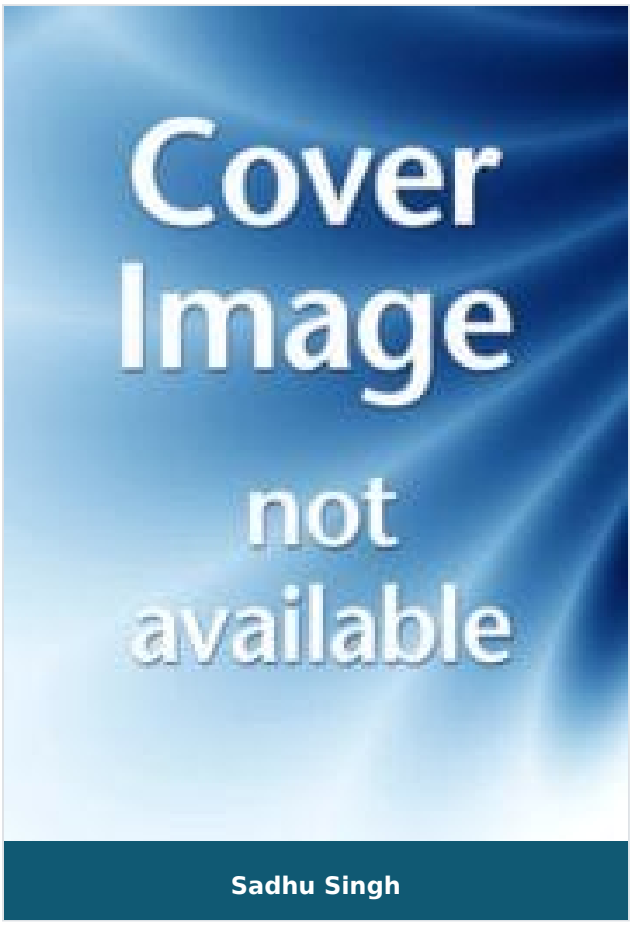
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A. Nag Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.

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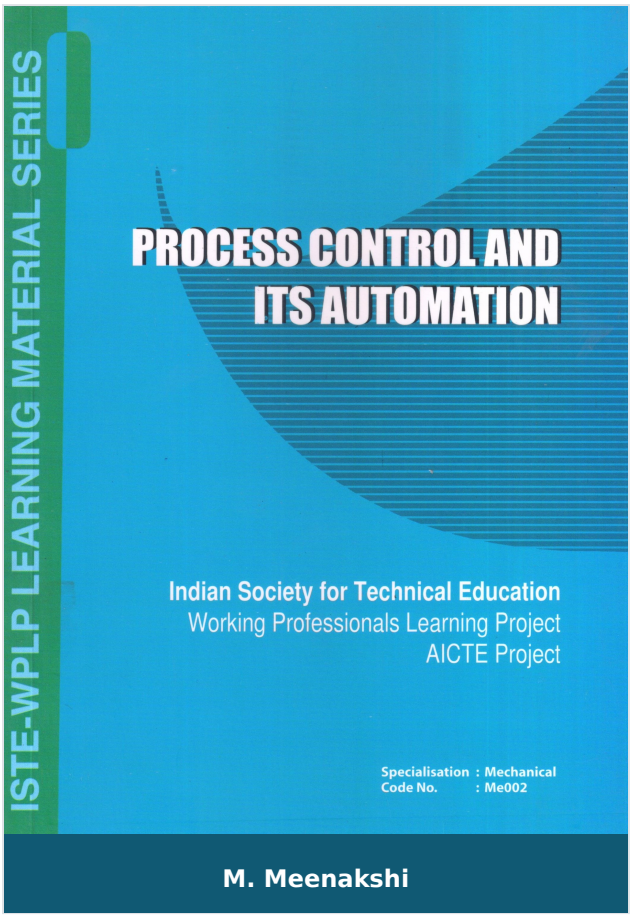
Sadhu Singh

Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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Process Control and ITS Automation

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Product Description

A sound knowledge of the basic principle underlaying any particular branch of engineering is fundamental to its practical application in industry and to its further development. A study of the elements of process dynamics and control now forms an essential part of the education of the chemical and process engineer and is of value also the students in allied fields of fluid process technology.

Process control technology has demonstrated great through the years. Today, the study of process control systems or automation in various engineering institutes and universities is confined to the theoretical aspects, which can hardly be applied to the real world problems. While focusing on the fundamentals, this book reflects the current advances in the technology associated with the process control, hence useful to the students or practicing engineers when they are faced with practical problems.

The main objective of this book is to impart solid application oriented knowledge of the technology spanning the industrial control field. This technology includes control instrumentation, and some specified systems like programmable logic controllers etc. The treatment of programmable logic controllers has also been expanded to reflect how this technology hos increased its application based in modern industry. It also incorporates distributed digital control, which is an important field in all industrial control applications. This book also describes intelligent controllers covering model based controllers, fuzzy controllers and neuro controllers.

The book introduced the subject of automation, its historical development, basic functions and current trends.

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Table Of Contents

- FOREWORD
- PREFACE
- Introduction
- Fundamentals of Closed Loop Control Technology
- Controller Tuning Methods
- Compensator Design in The Frequency Domain
- Components of Control Loops and Isa Terminology
- Programmable Logic Controllers and Industrial Automation
- Distributed Digital Control
- Intelligent Controllers
- Plant Parameter Estimation Theory
- REFERENCES

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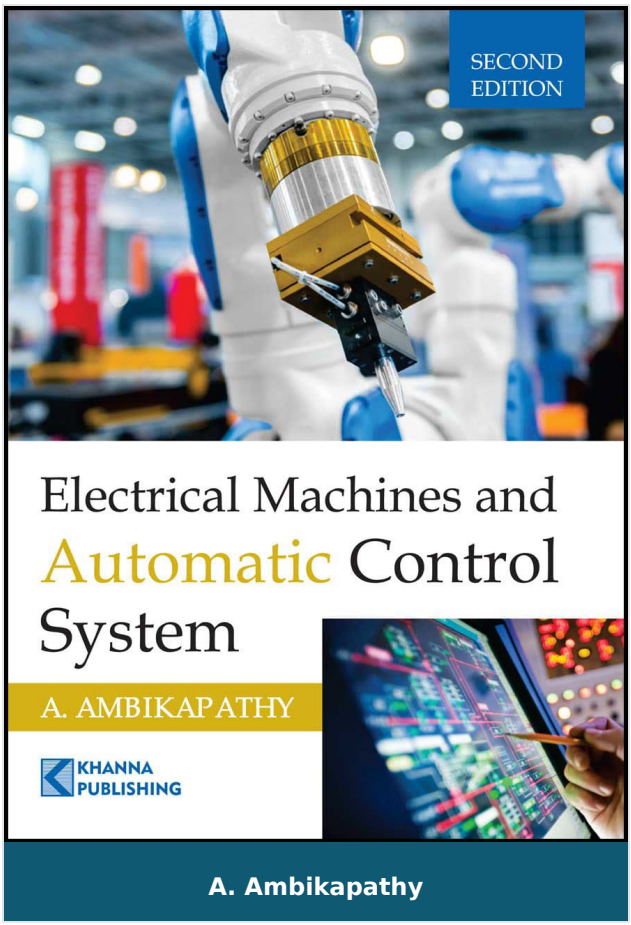
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Electrical Machines & Automatic Control System

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A textbook on "Electrical machines and Automatic control System" has been written for the undergraduate students of mechanical department. The material of this book is very useful to the students for understating the concepts as well as from examination point of view. A number of examples are solved in detailed manner in every unit so that the students can practice more on numerical part. Every unit contains exercise problems with answers which help the students to prepare for their exams. The content of this book is explained in a simple language so that understating will be much easy. I will be thankful to the students and teachers who pinpoint the errors and suggestions for the improvement of the book.

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Table Of Contents

- Single Phase Transformer
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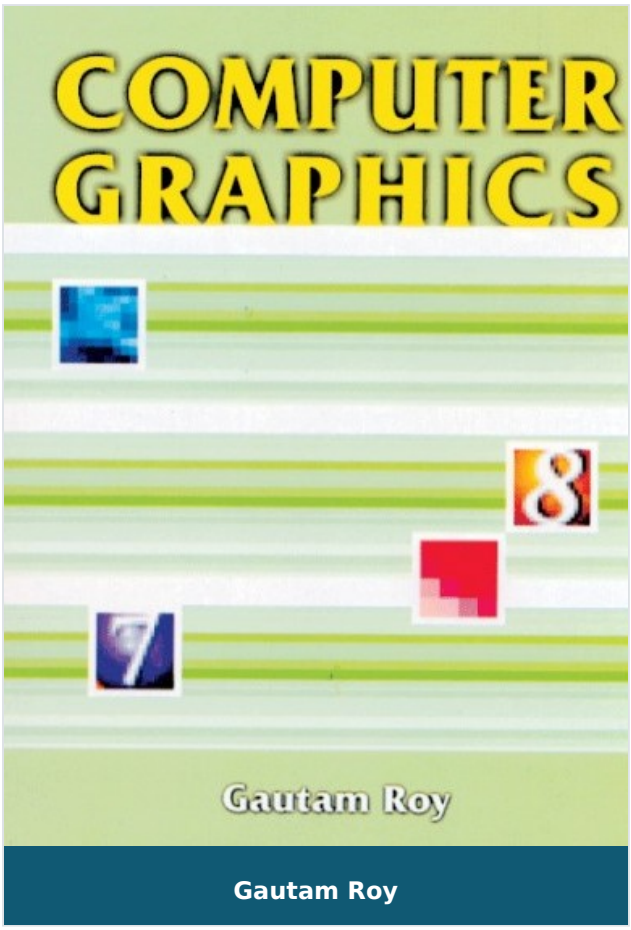
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A. Ambikapathy currently working as an assistant professor in " Galgotia College of Engineering and Technology " holds M. Tech degree. She has presented five papers in national level conferences. She worked under three different universities and having ten years of teaching experience.

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Gautam Roy

Computer Graphics

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Product Description

This book is basically made for the B.E. and M.C.A. level of students thought it will be immense helpful for all- who want to learn the subject computer graphics as a whole. The book covers the complete area of computer graphics, especially on the theories and application parts related to real life problems and their corresponding operation procedures. The book consists of more than 100 ready to use examples, ample number of related figures and sketches to supplement the theories have also been incorporated. The theories and examples are illustrated with a very lucid and easy to understand language which will be of immense helpful to the readers, students in particular. This book will not only be helpful to the students of computer graphics, but it will also help all the students and professionals who want to learn computer graphics and its multifaceted uses.

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Table Of Contents

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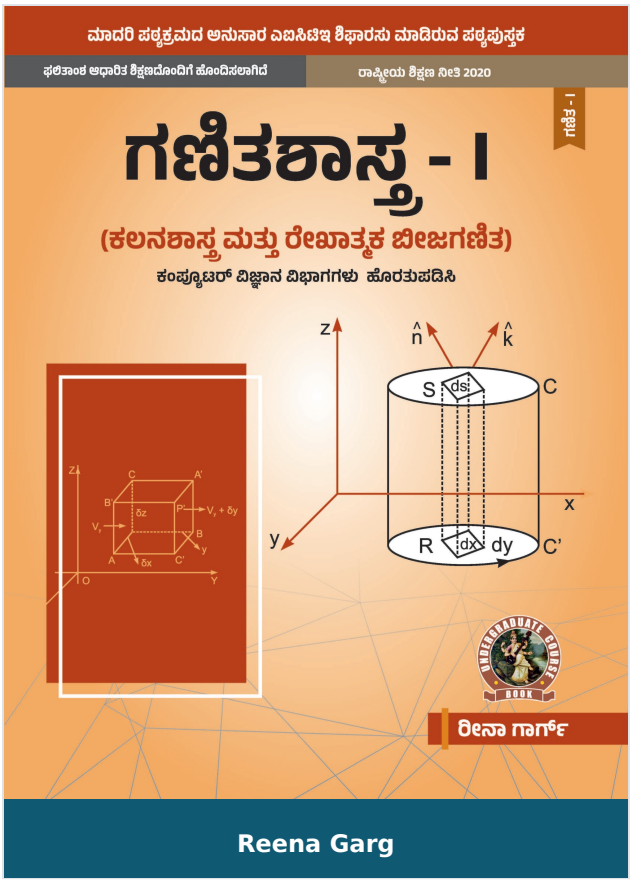
Gautam Roy

Dr. Gautam Roy obtained his B.E.E., M.E.E and Ph.D. degrees from Jadavpur University, Kolkata and was awardered the foreign fellowship to work abroad. He was attached with different hardware and software consultancy jobs and acted as senior faculty members to different reputed institutes like Institution of Engineers, The Institute of Computer Engineers (India), St. Xavier's College Computer Centre, Rabindra Bharati University Computer Centre, Institute of Modern Management and many others and was actively attached in the field of education for nearly two decades. he was also a paper setter and examiner of different universities and professional examinations. Currently Dr. Roy is working as Senior Scientist in the field of computer applications in a government research laboratory.

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Mathematics I Calculus and Linear Algebra [For Non Computer Science Engineering Branches]

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Product Description

Calculus, Multivariable Calculus and Linear Algebra covers all the Modules prescribed by AICTE. Model curriculum to all the 1st year students (except CSE) studying in engineering institutions and universities of the country. It serves as both text book and / or useful reference work. It contains 5 units which include calculus, matrices, sequences & series and multivariable calculus along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that helps in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE, this book is in student friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of Questions in this book have been designed to success the reader understands of the subject. Professionals or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

Some Salient Features of the Book:

1. In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.

2. Emphasis on the applications of concepts and theorems.

3. Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner.

4. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student’s practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the

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student’s capability, to increase the feeling of team work.

5. To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible.

6. Some standard problems with sufficient hints have been included in each exercise to gauge the student’s visual understanding and for grasp the theory.

7. Video links, interesting facts, uses of ICT also included after each topic in every unit for easy understanding of the readers. Also included the pictorial representations of many topics for fast and permanent grasping of the content.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- Guidelines for Teachers
- Guidelines for Students
- Calculus-I
- Calculus-II
- Sequences and Series
- Multivariable Calculus –I
- Matrices
- Index
- CO and Po Attainment Table.

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Dr. Reena Garg , M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers.She has published more than 10 research

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papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.

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Refrigeration and Air Conditioning

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Product Description

Refrigeration and Air-Conditioning is a compulsory subject for the B Tech Mechanical Engineering and other allied branches. It is offered in the final year of the degree program. it is also taught to Diploma students. With the global problem of environment pollution, warming and ozone layer depletion, the importance of this subject has increased manifold in the engineering education The subject is also important from the pint of view of job opportunities as it is an essential part of any competitive examination.

Many books on this subject are available in the market but most of these books do not cover the various aspects of this subject. The author has a vast experience of teaching and administration in reputed institution and Universities of the country. The author has also long experience of association with the National level examining bodies like UPSC and State Level Public Service Commissions to conduct examinations for National and State Services. This vast experience of the author has been utilized in writing the book.

The book contains seventeen chapters on : Basic Concepts of Thermodynamics, Fundamentals of Refrigeration, Air Refrigeration Cycles, Aircraft Refrigeration Systems, Simple Vapour Compression Systems, Multi - Stage Vapour Compression Systems, Vapour Absorption refrigeration Systems, Refrigerants, Refrigeration Equipment, Cryogenics, Steam Jet Refrigeration System, Psychometric. Comfort Air-Conditioning, Cooling and Heating Load Estimation, Ducts Design, Fans, and Applications of Refrigeration and Air - Conditioning.

A large number of Multiple - Choice Questions from Gate and Civil Services Examinations have been given in the form of appendices. Useful Tables and Charts have been given at the end of the book. Numerical Problems from Indian Engineering Services Examinations conducted by the UPSC are given chapter wise.

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Table Of Contents

- Basic Concepts of Thermodynamics
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- Air Refrigeration Cycles
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- Simple Vapour Compression Systems
- Multi-Stage Vapour Compression Systems
- Vapour Absorption Refrigeration Systems
- Refrigerants
- Refrigeration Equipment
- Cryogenics
- Steam Jet Refrigeration
- Psychrometry
- Comfort Air-Conditioning
- Cooling and Heating Load Estimation
- Ducts Design
- Fans
- Applications of Refrigeration And Air-Conditioning

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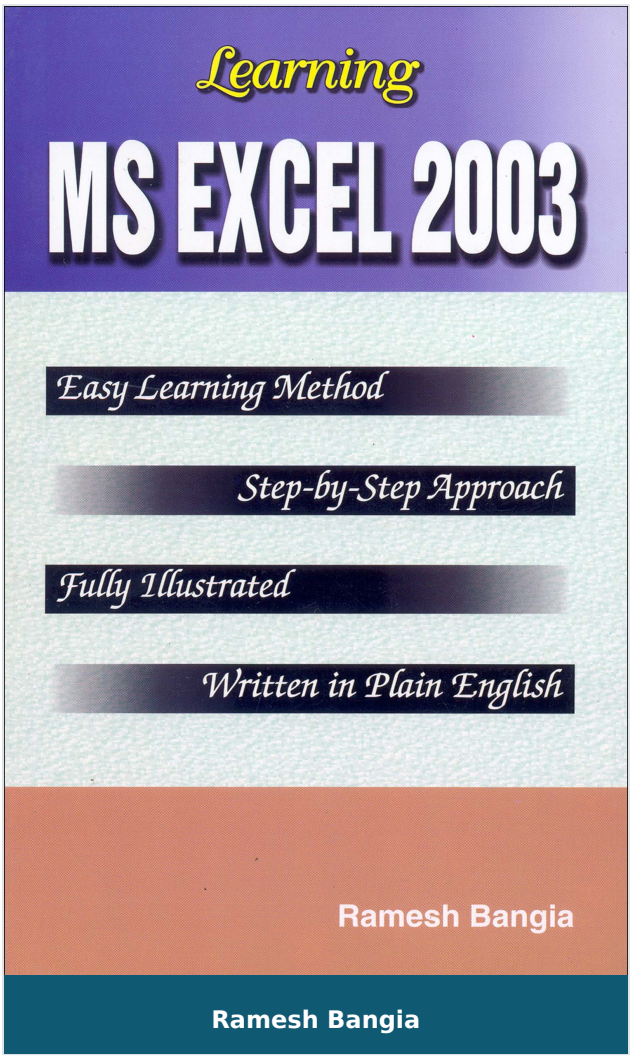
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Product Description

Learning of a software is both easy and difficult. It depends up to what level you planning to learn. If you are learning only for the working use, then it is very easy. But, when you try to go deep into it, then you realize how difficult it is to master it. Microsoft Office Excel 2003 is such a vast subject that it will take a lot of time to understand it fully. This book has been written in mind to make you aware of the options available in the software and how they can be used. It is like telling the child about the steps and stairs. You are the one who is to climb the stair. This book will just guide you how to use the stairs.

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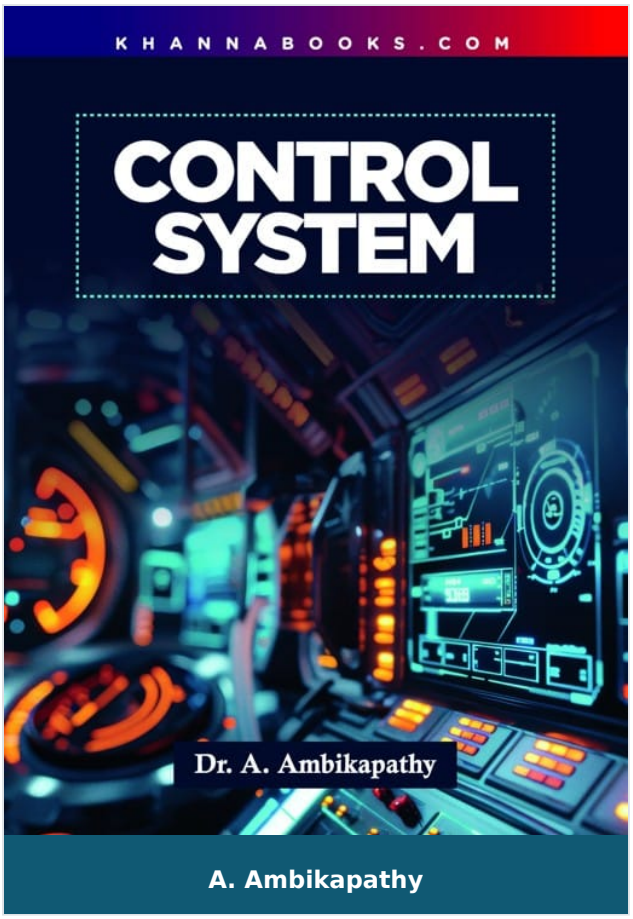
Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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Control System

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Product Description

The textbook on Control System tells about the basic concepts of control system in a detailed manner. This book contains the brief explanation about block diagram reduction, signal flow graph and time domain analysis. The techniques which are used in control system such as root locus, bode plot and polar plots are explained in detail. designing procedures for the compensators (Lag, lead and lag lead) are given in easy manner and steady state space analysis also explained in a simple manner. The effort has been taken to explain all the concepts in a simple language to make the students to understand the concepts very easily.

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Table Of Contents

- Basics of Control System
- Time Domain Analysis
- Concept of Stability
- Correlation
- Compensators Design

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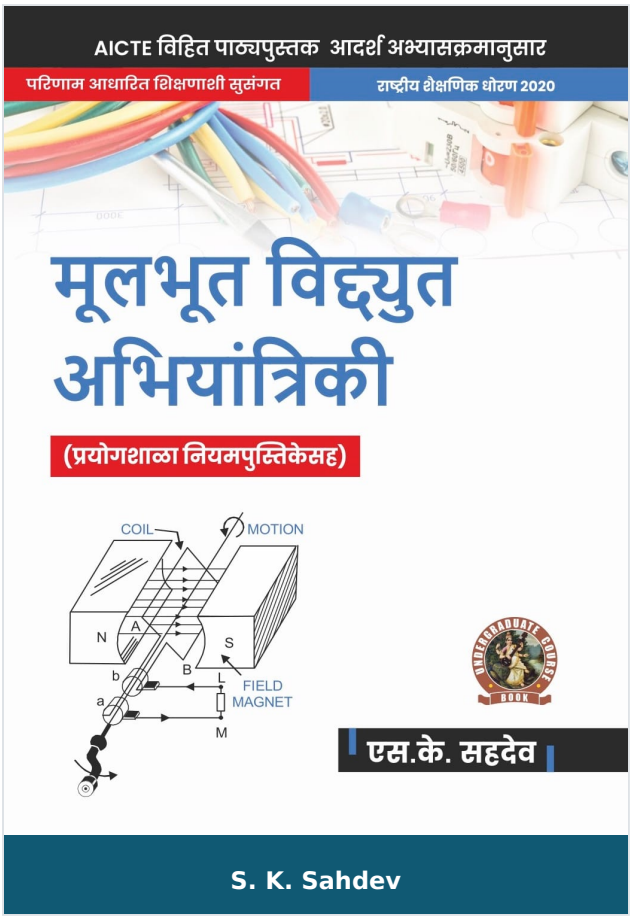
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Basic Electrical Engineering (with Lab Manual)

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Product Description

This textbook “Basic Electrical Engineering” is based on the latest syllabus of the Universities AICTE and Educational Institutes. In this edition, some material of the book has been rewritten to make the presentation easily comprehensible. More illustrative examples mainly from IAS, IES and GATE and other competitive examinations have been added. Various problems with answers have been added to support the text. For quick revision, summary/ highlights are given at the end of each chapter.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- Guidelines for Teacher
- Guidelines for Students
- DC Circuits
- AC Circuits
- Transformers
- Electrical Machines
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