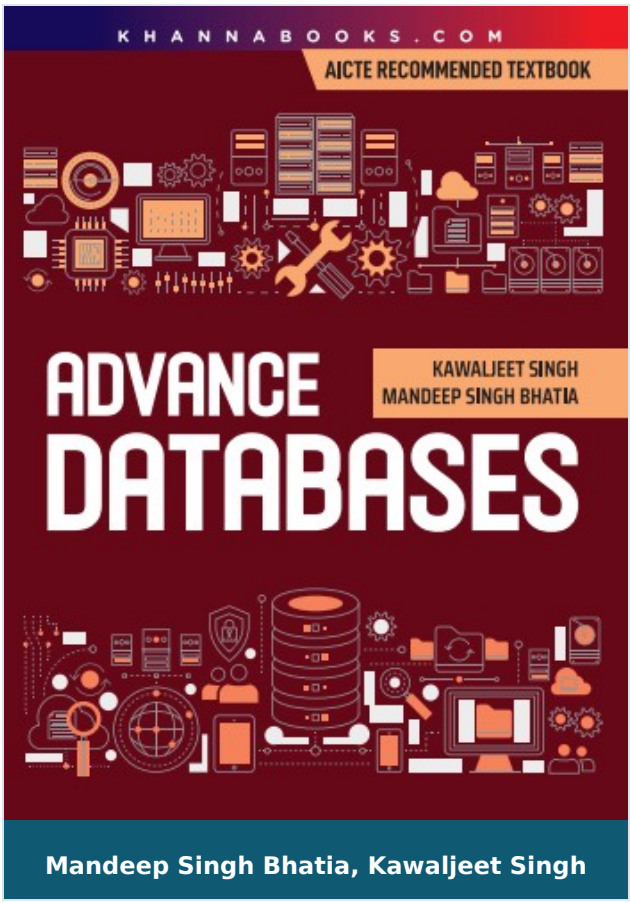


Advance Databases

Author :	Mandeep Singh Bhatia, Kawaljeet Singh
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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

This book provides a comprehensive introduction to database system concepts, design and their applications. Besides the introduction of the simple databases concepts; it also covers the advance databases concepts with latest developments and trends in database technology. Basic concepts of database management systems. Step-by-step information to the concepts of normalization with various normal forms. Relational database concepts such as relational algebra and relational calculus with simplified examples. Advance and emerging database concepts such as object oriented database, distributed database, data warehousing, OLAP and data mining. Exercises having long answer type question for university exams; MCQ's for competitive exams.

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- Rudiments of Databases
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- Database Security
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- Transaction Processing
- Concurrency Control
- Backup and Recovery
- Overview of Advance Databases Concepts
- Data Warehousing
- Online Analytical Processing
- Data Mining

Author

Mandeep Singh Bhatia

Mr. Mandeep Singh Bhatia is presently working as Lecturer in Department of Computer Science & IT, Lyallpur Khansa College, Jalandhar. He is Master in Information Technology and has appropriate knowledge of Computer Software and Hardware. He is proficient in applying Data Mining Techniques in various fields. His subjects of interest are Data Warehousing, Data Mining, Computer Networks and Computer Hardware. His total teaching experience is of 5 years. He has written one research paper which has been published in the proceedings of international conference held at Austria. Other books by authore are: "Fundamentals of Computer Hardware" and "A Beginner's Guide to Visual

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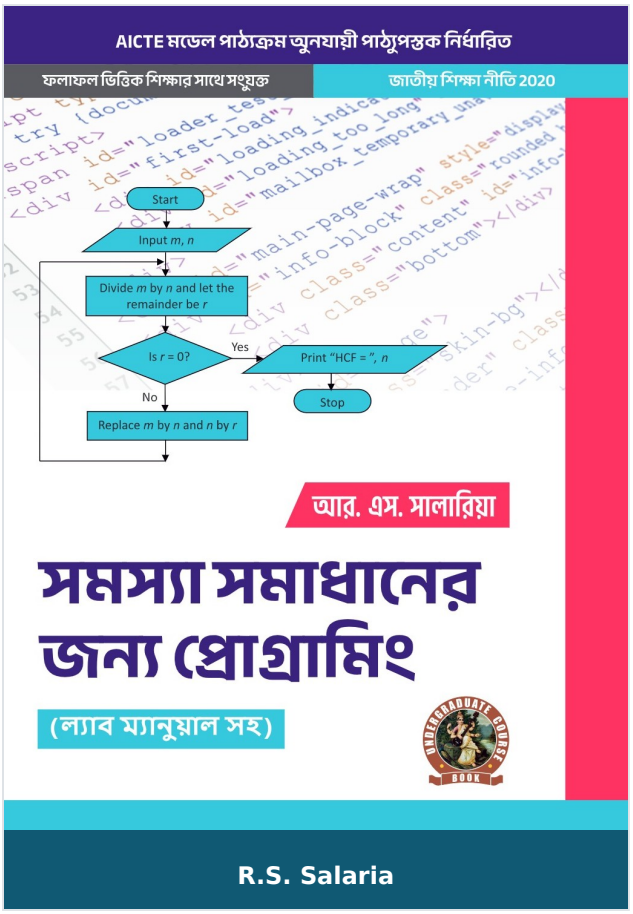
Kawaljeet Singh

Dr. Kawaljeet Singh is presently working as Director, University Computer Centre, Punjab University, Patiala. He is also acting as Dean Faculty of Computer Application (Honorary) & member industry-institute formation of quality committee, PTU, Jalandhar. Earlier, he worked as Professor and Head, Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar. He was also the chairman board of both postgraduate and undergraduate (CSE) & Dean Faculty of Engineering & Technology, GNDU, Amritsar. His total teaching experience is of 18 years. He has written 3 books. His 11 research papers are published in national journal and one paper in international journal.

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Programming for Problem Solving (with Lab Manual)

Author :	R.S. Salaria
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E-ISBN 13 :	978-93-55381-03-3
Edition :	1
Pages :	392
Type of book :	Physical
Year :	2025
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Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, Bengali Books, Book Store, Ebooks
Condition Type :	New
Country Origin :	India

Product Description

This textbook is designed as per the model curriculum of AICTE for the first year students of all branches of undergraduate program in Engineering & Technology (BE/B. Tech). The subject of programming for problem Solving aims at developing problem solving skills among the students and the skills to create programs in C language for their implementation. This book emphasizes to empower the students to grasp the skills required for problem solving and to develop deep understanding of the constructs of C language. These aspects of the subject are well illustrated through enormous solved programming problems.

Salient Features:

1. Simple and lucid language that enables students to grasp the subject.
2. Demonstrates the elegant programming style.
3. 165+ ready to run programs for reference and to illustrate the program development process.
4. 135+ Short answer type questions to provide an opportunity for self-assessment of the fundamental concepts learned by answering them precisely.
5. 165+ multiple choice questions to provide an opportunity to synthesize the fundamental concepts.
6. 90+ Programming problems to provide an opportunity to harness programming skills.

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Author

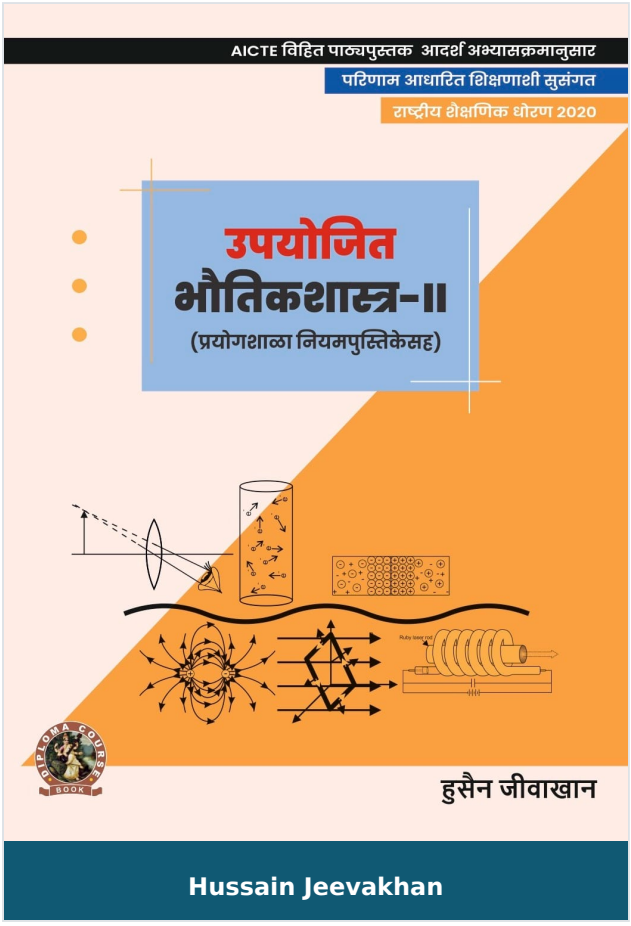
R.S. Salaria

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p

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Applied Physics-II (with Lab Manual)

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Condition Type :	New
Country Origin :	India

Product Description

“Applied Physics-ll” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE).

Book covers seven topics- Wave motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning.

Some salient features of the book:

1. Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes.

2. Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit.

3. Content presented in book in chronological way.

4. Figures, tables and equations are given to improve clarity of the topics.

5. Solved examples are given with systematic steps.

6. MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

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- Optics
- Electrostatics
- Current Electricity
- Electromagnetism
- Semiconductor physics
- Modern physics
- Index

Author

Hussain Jeevakhan

Hussain Jeevakhan-789391505578(DIP126EN) “Applied Physics-ll” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE). Book covers seven topics- Wave

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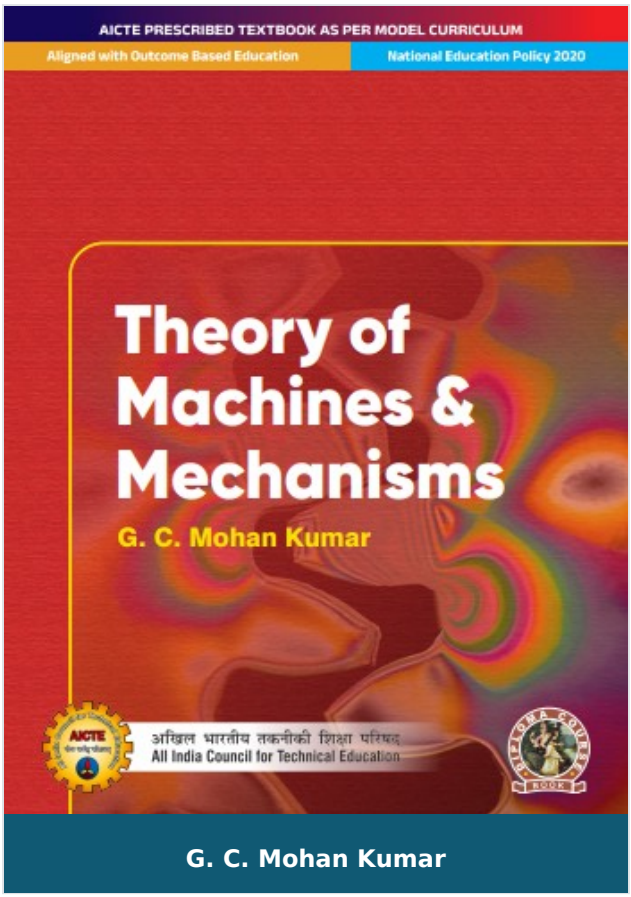
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motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning. Some salient features of the book: l Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes. l Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit. l Content presented in book in chronological way. l Figures, tables and equations are given to improve clarity of the topics. l Solved examples are given with systematic steps. l MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

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Theory of Machines & Mechanisms

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Product Description

Theory of Machines & Mechanisms

The course Theory of Machines & Mechanisms provides a basic knowledge of the principle of working of mechanical elements and explores through examples and solved problems. The course is presented in five units. Units 1 deals with the Cams and followers; Unit 2 power Transmission elements like belts, gears, and chains; Unit 3 covers flywheels and governors; Unit 4 Brakes and dynamometers; and Unit 5 deals with balancing of revolving masses and vibrations. All unit in the book gives the objectives of the study and expectations from the students in exercising OBE. The working principle of each mechanical element, derivation, and numerical problem made the reader understand the course effectively.

Salient Features:

- The content of the book is aligned with the mapping of course outcomes, programs, outcomes and unit outcomes.
- Both the student and teacher-centric subject materials are included in the book in a balanced and chronological manner.
- All figures, tables, and others are inserted to improve the clarity of the topic.
- Discussion on each unit helps the overall view of the chapter and helps in answering short questions and objective questions.
- The book provides a lot of information and QR codes for E-resources/
- Descriptions with solved numerical problems are the basics for the course design of machine Elements and, therefore, presented in a systemic way.

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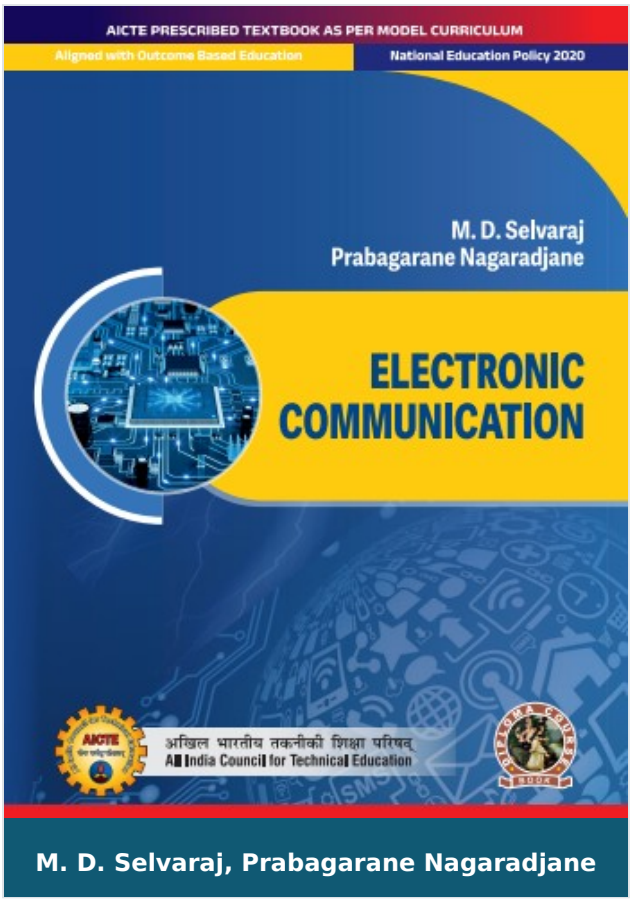
G. C. Mohan Kumar

Prof. G. C. Mohan Kumar Professor (HAG), Dept. of Mechanical Engineering National Institute of Technology Karnataka, Surathkal

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Electronic Communication

Author :	M. D. Selvaraj, Prabagarane Nagaradjane
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Product Description

Electronic Communication

In an era dominated by rapid technological advancements in the next generation of mobile communications, mastering the fundamentals of communication engineering is essential for students. This book, `Electronic communication' thoroughly explores key concepts, theories, and applications in the communication engineering _eld. Furthermore, this comprehensive guide covers a gam- out of topics in communication engineering from fundamental principles to advanced techniques that provide a structured approach to comprehending communication engineering concepts for students or teachers seeking to enhance their expertise.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units 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.
- At the end of each chapter, short questions, objective questions and long answer exercises are given for the students to practice.

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- problems including numerical examples are solved with systematic steps provided.

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- Pulse analog modulation
- PCM and delta modulation systems
- Digital modulation
- Spread-Spectrum modulation
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Author

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D.C. Sikdar

Mechanical Operations (Particles and Motion of Particles)

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Product Description

MECHANICAL OPERATIONS

Particles and Motion of Particles

Chapters Covered:

1. Introduction.

2. Particle Technology.

3. Size Reduction.

4. Flow of Fluid Past Immersed Bodies.

4. Motion of Particles Through Fluids.

6. Sedimentation.

7. Filtration.

8. Agitation and Mixing.

9. Sampling Storage and Conveying of Solids.

10. Magnetic Separations.

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- Introduction.
- Particle Technology.
- Size Reduction.
- Flow of Fluid Past Immersed Bodies.
- Motion of Particles Through Fluids.
- Sedimentation.
- Filtration.
- Agitation and Mixing.
- Sampling, Storage and Conveying of Solids.
- Magnetic Separations.
- Jigging.

Author

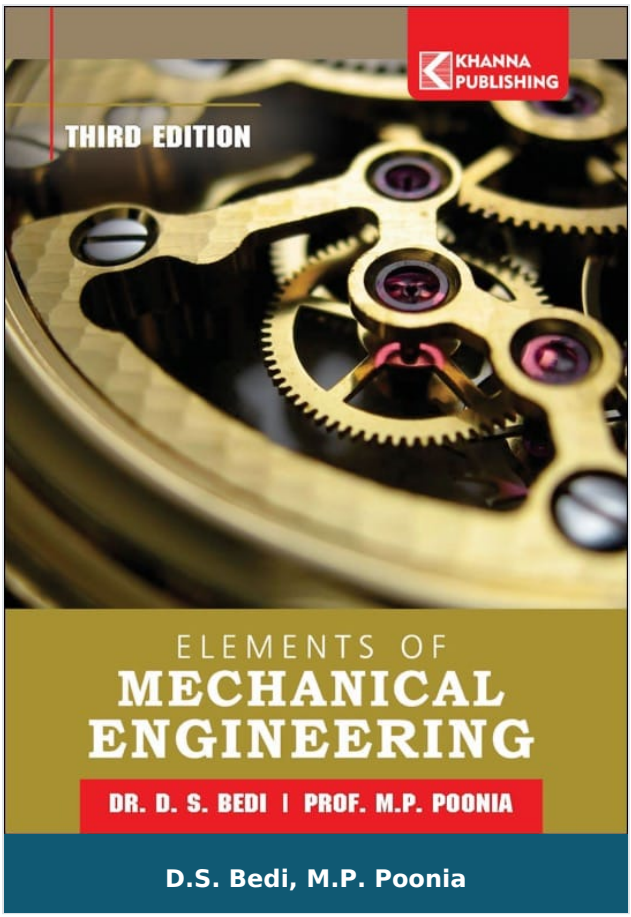
D.C. Sikdar

D.C. Sikdar D. C. Sikdar (Ph.D.) is an associate professor, Department of Chemical Engineering, Dayananda Sagar College of Engineering, Bangalore, with more than two and half decades of teaching experience. Prof. Sikdar has published many papers in national and international journals of repute. he has received Best Research Thesis Award from Karnataka State Bio-fuel Development Board for guiding M.Tech Thesis on "Development of Bio-Hydrogen Dependent Fuel Cell using Micro Algae" in 2012. Prof. Sikdar is also a member of Indian Society of Technical Education (ISTE) and Indian Institute of Chemical Engineers (IIChE).

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Elements of Mechanical Engineering

Author :	D.S. Bedi, M.P. Poonia
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Product Description

The subject 'Elements of Mechanical Engineering' embraces 3 different fields of Mechanical Engineering, namely Thermodynamics, Strength of Materials and Theory of Machines.

The book is written in simple and easy to understand language. The authors have ingeniously brought in situations encountered by common man in his day-to-day life, so as to generate interest in the reader for the subject which otherwise leaves him high and dry.

In addition to this, every topic is supplemented with large no. of solved examples (more than 300 examples) which deals with every possible situation. At the end of each chapter, review questions have been added so that the students are made conversant with the type of compulsory questions they have to face in university exam. These are also followed by large no. of model problems.

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- Lifting Machines
- Concept of Mechanical Behavior of Engineering Materials
- Relation Between Elastic Constants
- Engineering Materials
- Centroid, Centre of Gravity, Second Movement of Area and Mass Movement of Inertia
- Index

Author

D.S. Bedi

Dr. D.S. Bedi is one of the distinguished writers in India. He possesses a very excellent academic background. He had held various high positions viz. formerly Professor Emeritus at Department of Mechanical Engineering, Institute of Engineering and Technology (Punjab); Professor & Head, Dept. of Mechanical Engineering,Thapar Institute of Engineering & Technology (Punjab); Visiting Professor at Wayne State University, Detroit, MI (USA); Principal, Baba Banda Singh Bahadur Engineering College, (Punjab); Advisor-

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cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab.

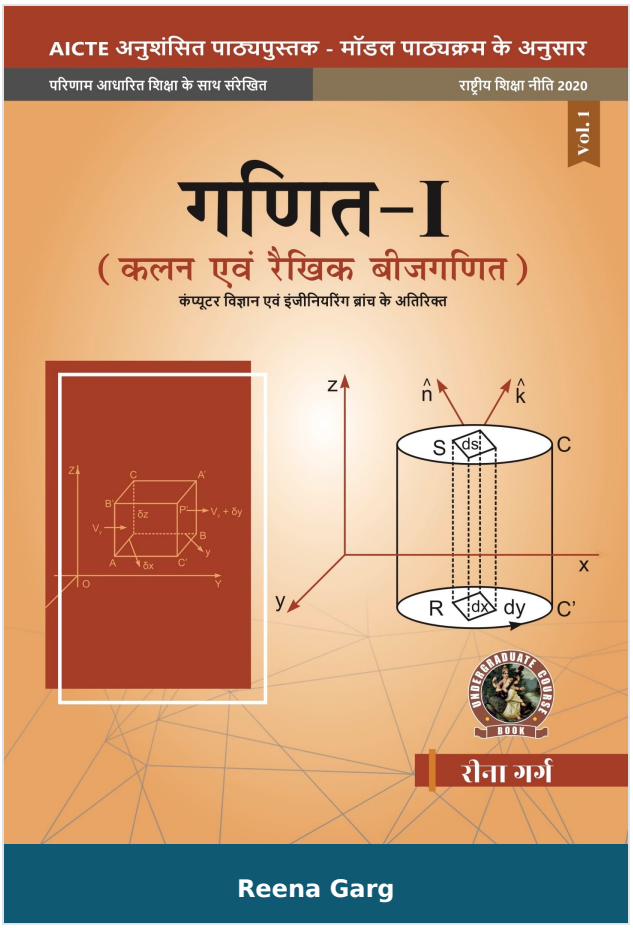
M.P. Poonia

Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata. Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.

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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

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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Author

Reena Garg

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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 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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This textbook “Engineering Graphics and Design” is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples.

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1. Introduction of Engineering Drawing
2. Orthographic Projection
3. Projection of Solids
4. Section of Solids and Development of Surfaces
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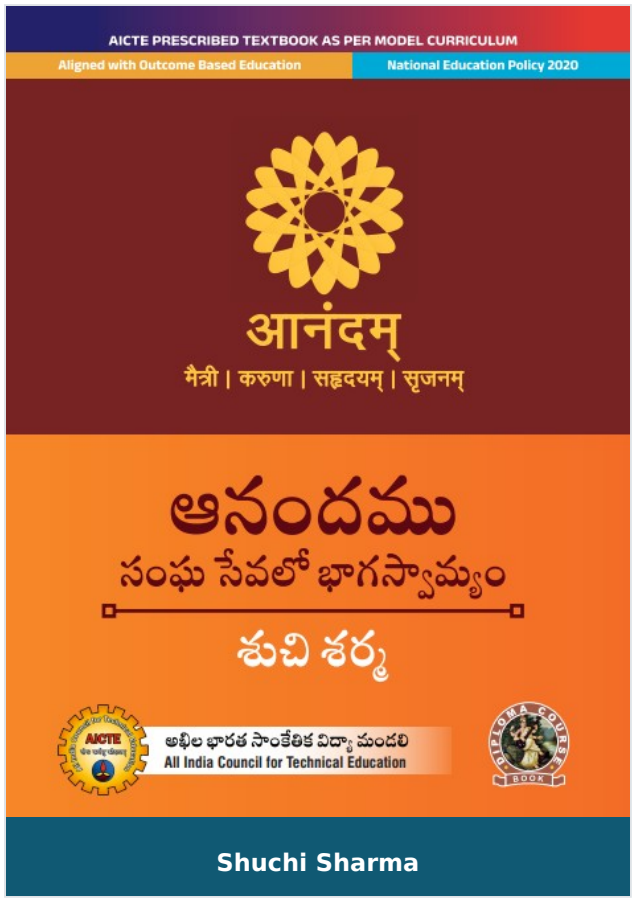
Pradeep Jain

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