

Applied Physics-I (with Lab Manual)

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Product Description

“Applied Physic-l” is a compulsory paper for the first year Diploma course in Engineering & Technology. Syllabus of this books is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concepts of outcome-based education.

Book covers six topics- Physical World, Units and Measurements; Force and Motion; Work, Power and Energy; Rotational Motion; Properties of Matter; Heat and Thermometry. Each topic is written in easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

1. Content of the book is aligned with the mapping of Course Outcome, Programs Outcomes and Unit Outcomes.

2. Book provides lots of interested facts, QR Code for E-resources, QR Code for use of ICT etc.

3. Students and teacher centric subject materials are included in book with balanced and chronological manner.

4. Figures and tables are inserted to improve clarity of the topics.

5. Short questions, objective questions and long answer exercises of different difficulty levels are given for practice after every chapter.

6. Solved numerical examples are provided with systematic steps in each chapter followed by numerical exercises with hints.

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Author

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V. K. Yadav

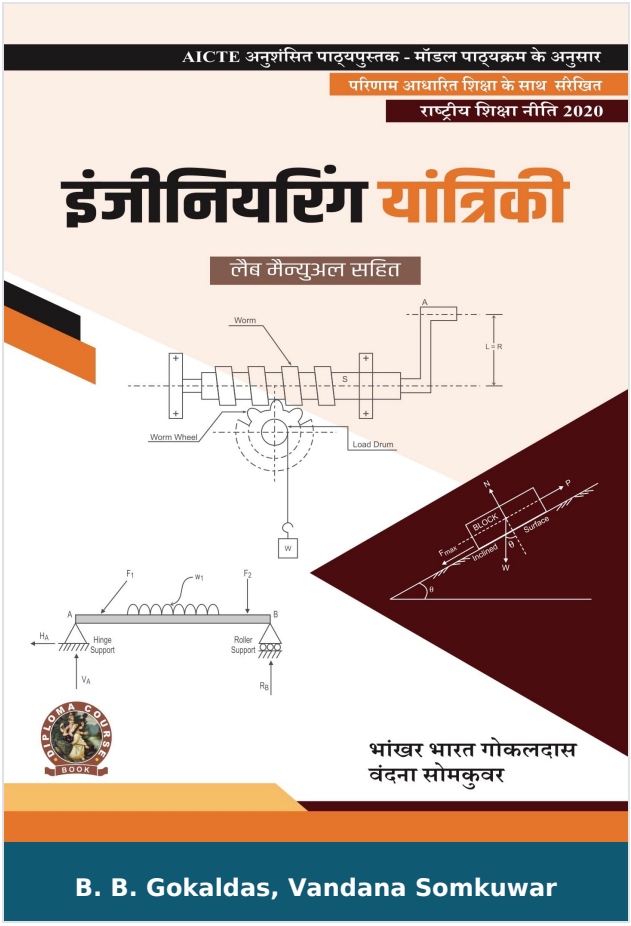
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Engineering Mechanics (with Lab Manual)

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Product Description

“Engineering Mechanics with Lab Manual” is a compulsory for the first year Diploma course in Engineering 7 Technology. Syllabus of this book is strictly align as per model curriculum of AICTE and academic content is amalgamate with the concept of Outcome based Education (OBE).

Book covers is five units- Basic mechanics & force system, Equilibrium, Friction, Centroid and Centre of gravity & simple lifting machine. Each unit written in every easy, systematic and orderly manner. Each unit contains a set of exercise at the end of each unit to test the student’s comprehension. Also in each unit the laboratory practical pertaining to unit is included.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.

3. Student and teacher centric subject materials included in book with balanced and chronological manner.

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

5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

6. Solved and unsolved problems including numerical examples taken with systematic step.

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- Centroid and Centre of Gravity
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Author

B. B. Gokaldas

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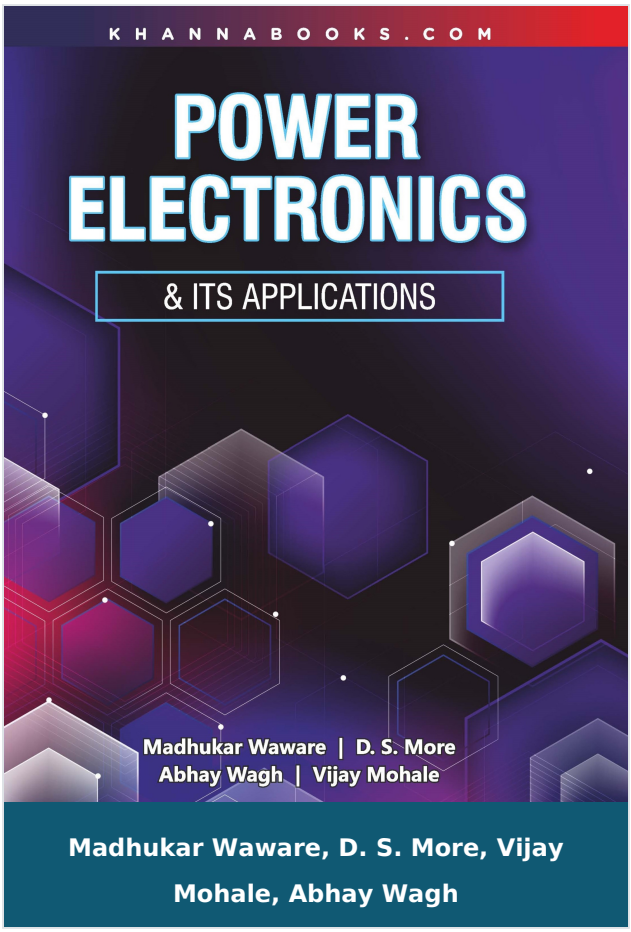
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Power Electronics & Its Applications

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Product Description

Power electronics systems are used in a wide range of applications and have the potential to impact many areas of global industrial and social activity. From cell phones to pacemakers, and utilities to automobiles, power electronics, and the engineering behind those electronics are very influential in peoples' daily lives.

A comprehensive self-contained text book covers principles of Power Electronics and its Applications. It provides a basic approach for the development of fundamental concepts and deep insight into the subject matter. This text book develops the subject matter in a simplified sequential manner. Theoretical explanation is supported by graded solved examples and multiple-choice questions, which have been framed to help the students in grasping the theoretical principles and their applicability with coverage of various topics.

The book meets the requirements of undergraduate and postgraduate students of engineering and also guide for practicing engineer in the area of power electronics. It is also useful for those who are preparing for professional competitive examinations.

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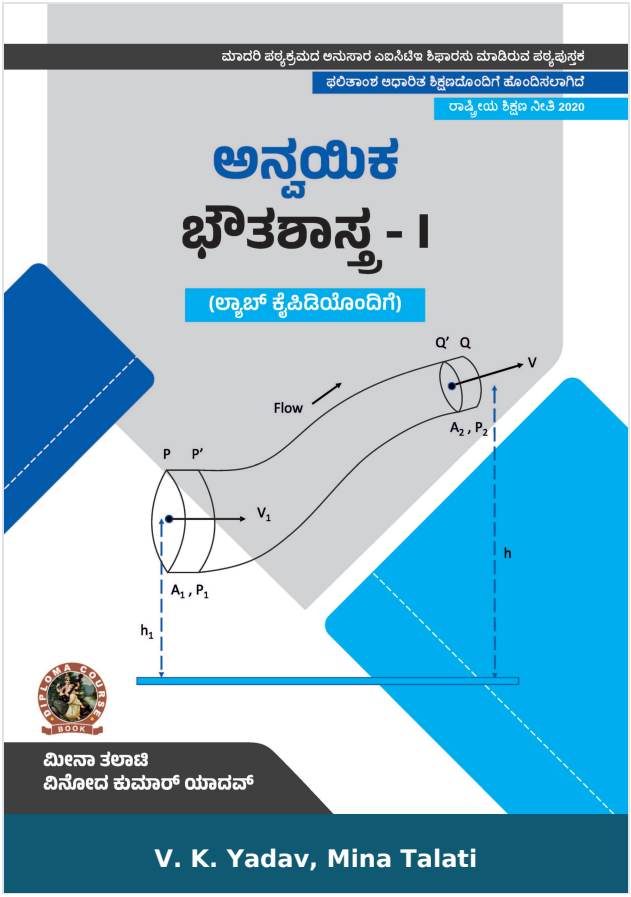
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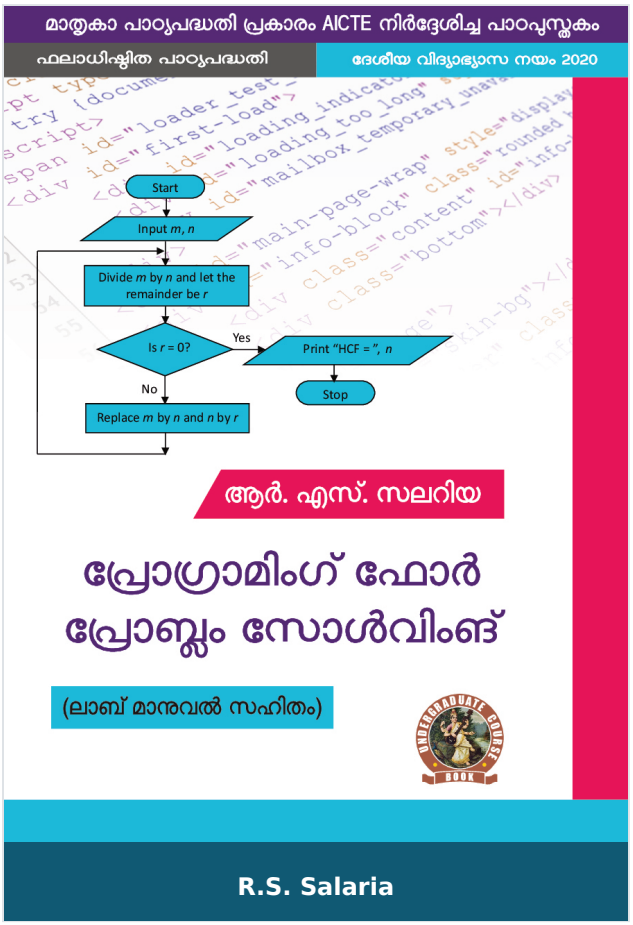
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Programming for problem solving (with Lab Manual)

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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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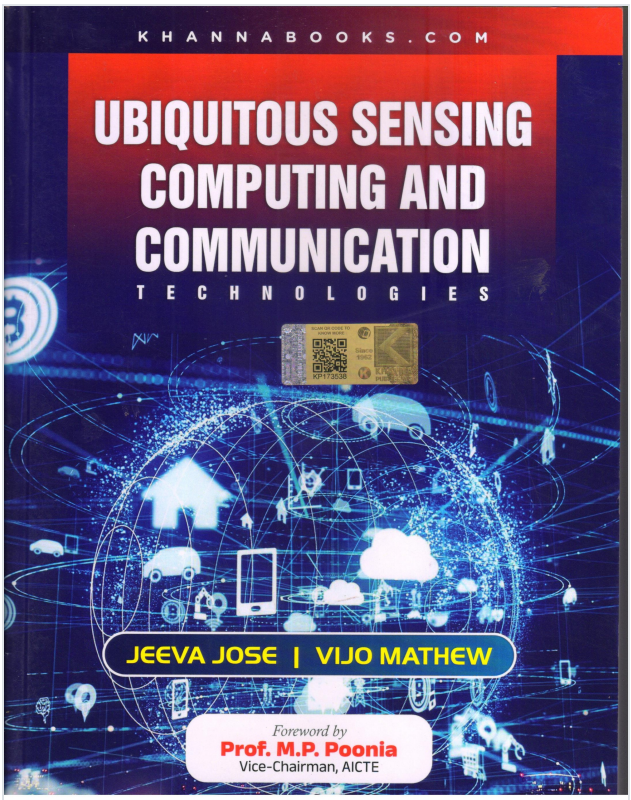
R.S. Salaria

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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Jeeva Jose, Vijo Mathew

Ubiquitous Sensing Computing and Communication Technologies

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Product Description

Salient Features of the Books:

*Covers Complete AICTE syllabus of Iot-03 minor degree course- Ubiquitous Sensing, Computing and Communication.

* The Basics of IoT- Mechanical, Electronics and Sensor platforms are explained.

* Different wired and wireless protocols, mobile to Electronics and Enterprise integration are discussed.

* Open Source and Commercial Electronics Platform for IoT demonstrated.

* Details of Open Source and Commercial Enterprise cloud platforms for Io provided.

* Each chapter is provided with objective questions with answers and review questions.

* The full form and explanation of the abbreviations used are given in each chapter.

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- Wearable Computing
- Affective Computing
- Cognitive Computing
- Context Aware Computing
- Social Network
- IoT Data Analytics and Management
- Internet and Deep Web
- Search Techniques and Search Engines.

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Jeeva Jose

Dr. Jeeva Jose completed Ph. D. in Computer Science from Mahatma Gandhi University, Kerala, India and is a faculty member at BPC College, Kerala. Her passion is teaching and

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areas of interests include world wide web, Data Mining and Cyber laws. She has been in higher education for the last 15 years and has completed three research projects funded by UGC and KSCSTE. She has published more than twenty research papers in various refereed journals and conference proceedings. She has edited three books and has given many invited talks in various conferences. She is a recipient of ACM-W Scholarship provided by Association for Computing Machinery, New York.

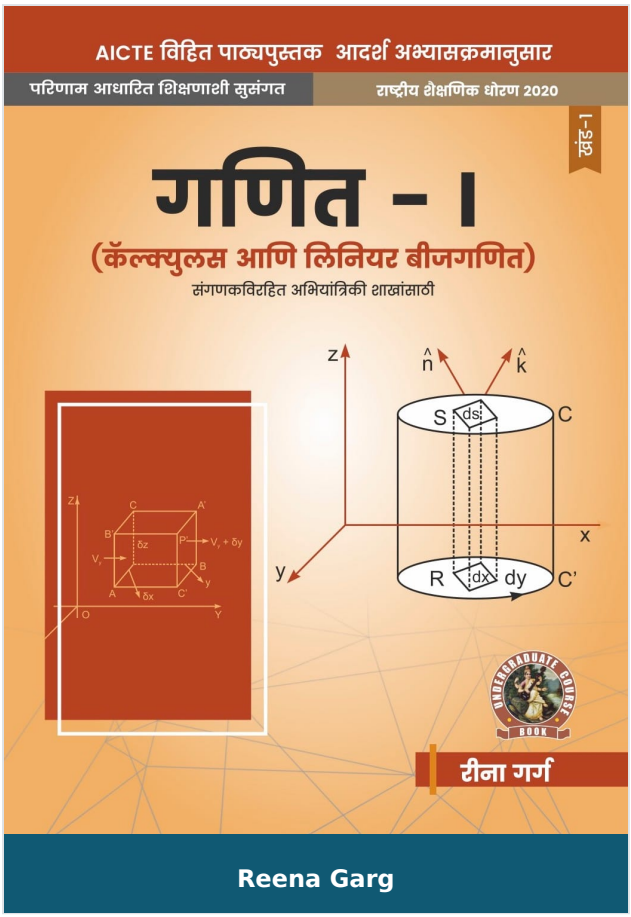
Vijo Mathew

Vijo Mathew is a highly accomplished engineer with three decades of experience in driving innovation and growth in various electrical, electronics, and information technology industries. His track record is complemented by a postgraduate degree in management, equipping him to excel in business management, strategic management, and technology management. His expertise is highly valued in the fields of software, electrical and electronics hardware, and design where he provides strategic guidance and mentorship to organizations seeking to stay ahead of the curve. He has demonstrated a unique ability to bridge the gap between technology and business driving success through his visionary approach and collaborative leadership style. His leadership skills and technical acumen have made him an advisor to some reputed national and international corporations. As an advisor and strategic leader, he is helping organizations achieve their full potential through innovative solutions, effective management, and visionary leadership. He is also author of many books related to technology and management.

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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 n 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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Reena Garg

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

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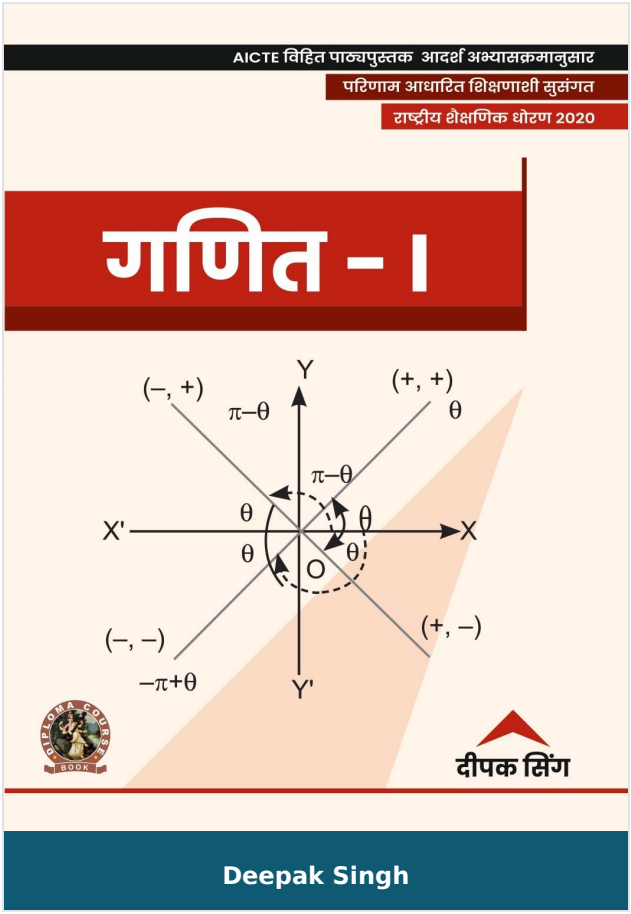
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also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers.She has published more than 10 research 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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Mathematics-I

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Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension.

Some salient features of the book

· Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

· Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.

· Students and teacher centric subject materials included in book with balanced and chronological manner.

· Figures, tables and mathematical equations are inserted to improve clarity of the topics.

· Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

· Comprehensive synopsis of formulae for a quick revision of the basic principles.

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Author

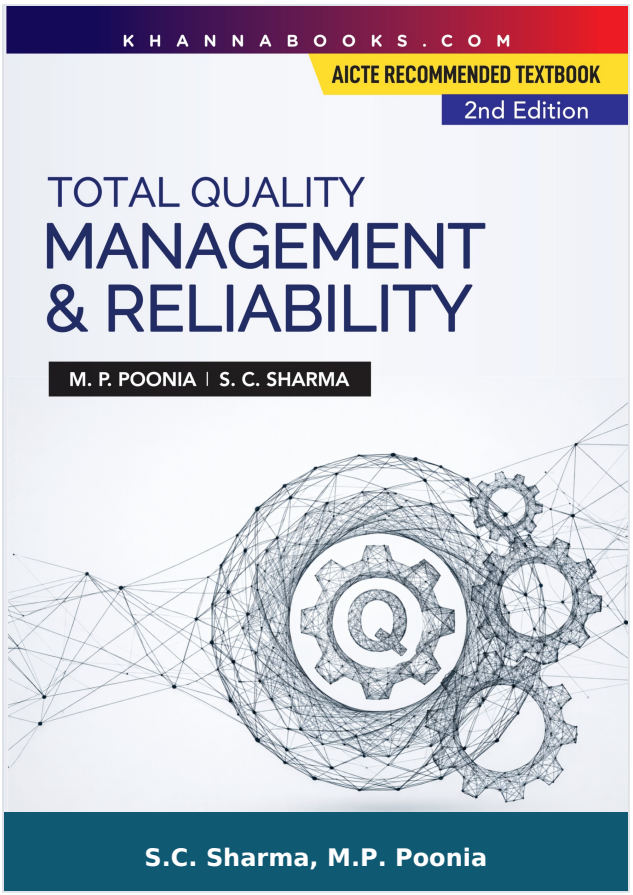
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Total Quality Management and Reliability

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Product Description

Total Quality Management is an integrated approach in satisfying customer needs in totally on a continuous basis, through involvement of each and every employee in the organization, making continuous improvement on one side and an appropriate cost-effective technology on the other side. It is management philosophy for professional excellence that too through customer orientation. With the rapid advancement in technology and awareness, the users (Customers) have become highly quality conscious and demands quality, reliability and safety in product and service. In view of this, industries need to upgrade their quality continuously. Product and service quality requires managerial, technological and statistical concepts which are the major functions of an organization. The concepts like strategic management, competitive bench marking, self-managing teams, getting it right first time, zero defects, employee empowerment are important as they move towards Total Quality Management (TQM)in simple and easy to understand language. The book is divided in to parts, part-I cover the principles and practices of TQM, while part-II covers the tools and technology of TQM.

The book covers the syllabi of various universities and therefore, should serve the needs of students of business administration and those of engineering, technology, and related disciplines. The professionals too will find this book to be a valuable reference in the field.

INSIDE THE BOOK

PART-1: PRINCIPLES AND PRACTICES

· Quality Concepts

·Total Quality management Concepts (TQM Concept)

·Quality Planning

·Organizing (Leadership) for Quality

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·Continuous Process Improvement

·Customer Satisfaction

·Supplier Partnership

·Performance Measures

·Quality Gurus(Pioneers) of Total Quality Philosophy

PART 2: TOOLS AND TECHNIQUES

·TQM Tools and Techniques-1

·TQM Tools and Techniques-2

·Fundamentals of Statistics

·Acceptance Sampling and O. C. Curves

·Statistical Process Control and Control Charts

·Process Capabilities

·Reliability Quality Management System

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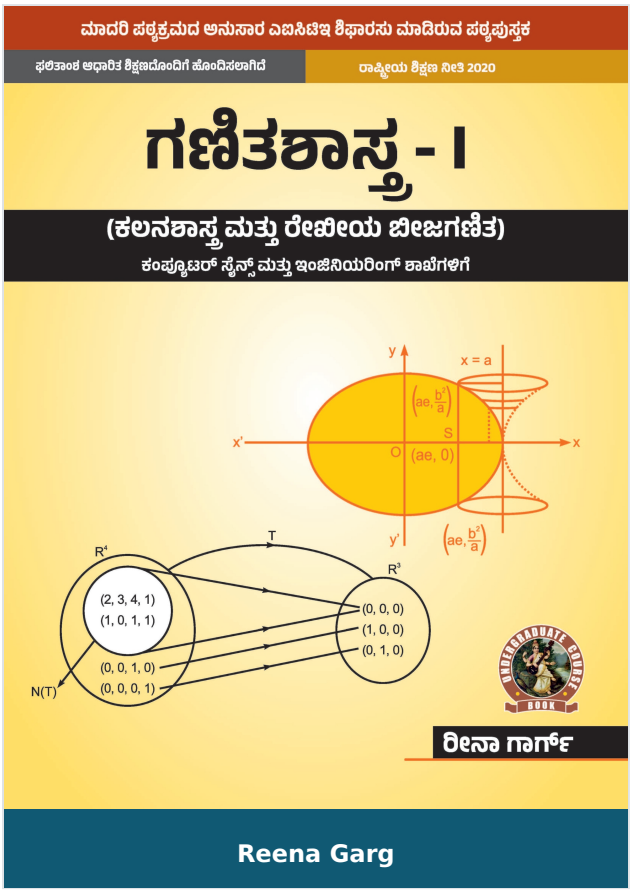
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Mathematics-I (Calculus and Linear Algebra) For Computer Science Engineering Branches

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Product Description

Calculus and Linear Algebra cover all the modules prescribed by AICTE model curriculum to all the 1st year CSE students studying in engineering institutions and universities of the country. It serves as both text book /or useful reference work. It contains 5 units which included calculus, Algebra and vector spaces along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that help in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE. This book is in student's 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 access the reader's understanding 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.

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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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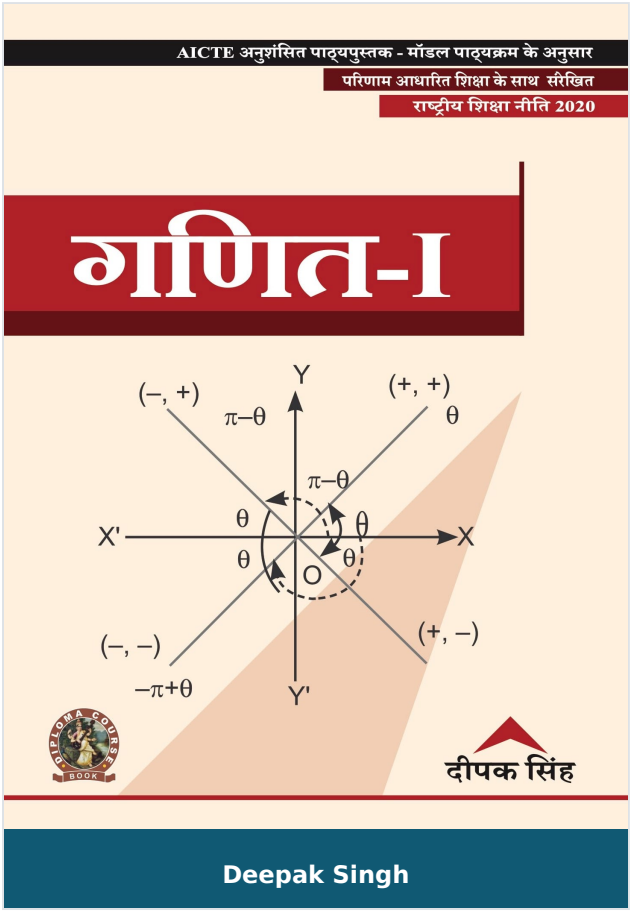
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Product Description

“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education.

Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.

3. Students and teacher centric subject materials included in book with balanced and chronological manner.

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

5. Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

6. Comprehensive synopsis of formulae for a quick revision of the basic principles.

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- Trigonometry
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- Differential Calculus
- Complex Numbers and Partial Fraction
- Permutation and Combination, Binomial Theorem
- Appendices
- References for Further Learning
- CO and PO attainment Table
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Author

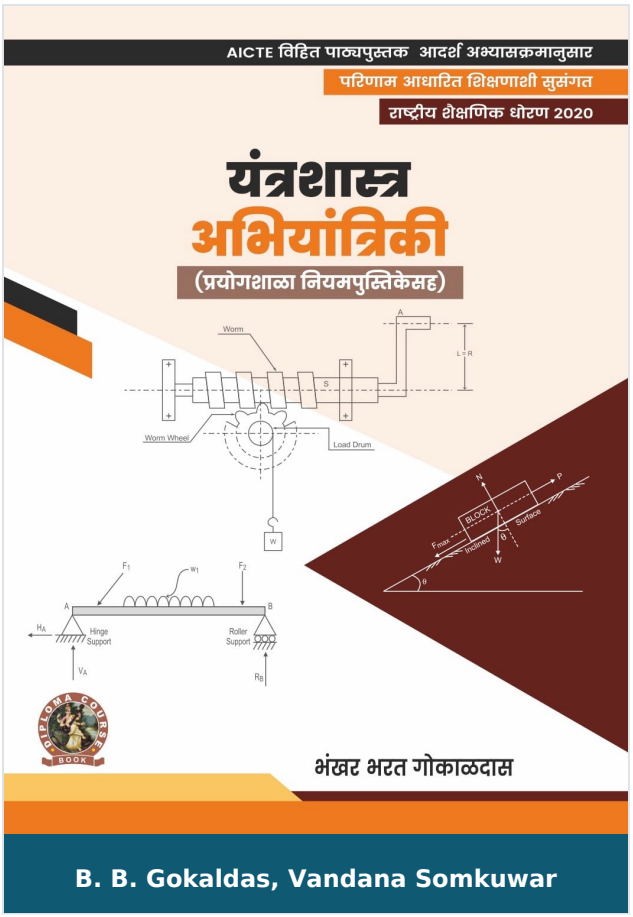
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Engineering Mechanics (with Lab Manual)

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Product Description

“Engineering Mechanics with Lab Manual” is a compulsory for the first year Diploma course in Engineering 7 Technology. Syllabus of this book is strictly align as per model curriculum of AICTE and academic content is amalgamate with the concept of Outcome based Education (OBE).

Book covers is five units- Basic mechanics & force system, Equilibrium, Friction, Centroid and Centre of gravity & simple lifting machine. Each unit written in every easy, systematic and orderly manner. Each unit contains a set of exercise at the end of each unit to test the student’s comprehension. Also in each unit the laboratory practical pertaining to unit is included.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.

3. Student and teacher centric subject materials included in book with balanced and chronological manner.

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

5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

6. Solved and unsolved problems including numerical examples taken with systematic steps.

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