

Testing & Evaluation of Civil Engineering Materials

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Product Description

Testing & Evaluation of Civil Engineering Materials This book contains an introduction to civil engineering materials and an advanced discussion on their testing and evaluation procedure for fourth semester students of undergraduate degree course. Main purpose of the book is to help the students identify suitable civil engineering materials as per their needs, through a systematic testing and evaluation procedure. The book is designed as per syllabus and model curriculum of AICTE and aligned with the theme of outcome-based education according to National Education Policy 2020. **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
- 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.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Introduction to Engineering Materials
- Emerging Civil Engineering Materials
- Introduction to Material Testing
- Standard Testing & Evaluation Procedures



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Author

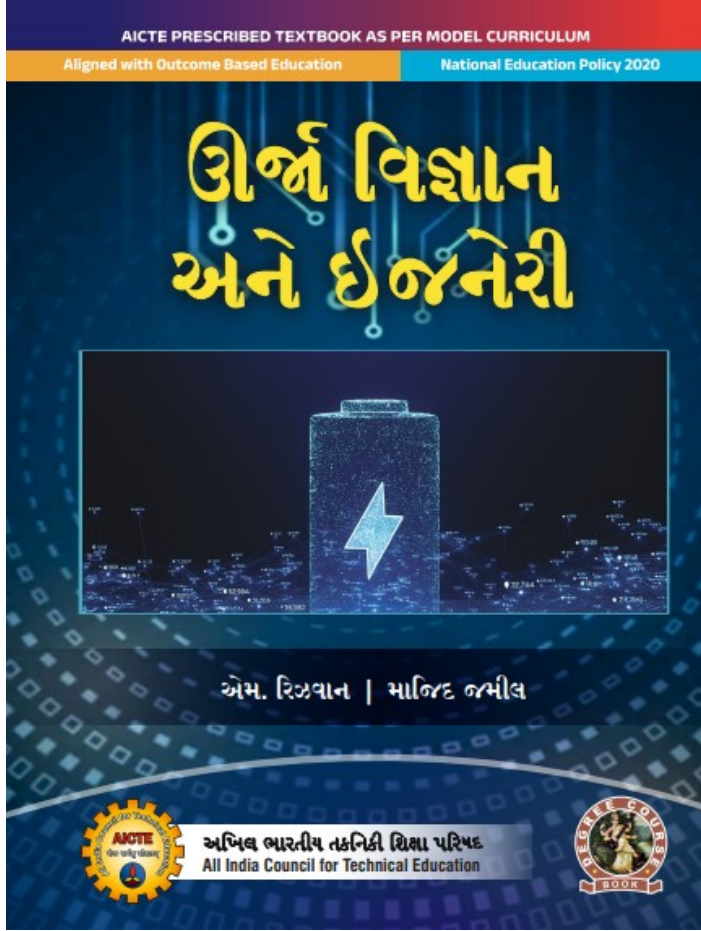
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Energy Science and Engineering

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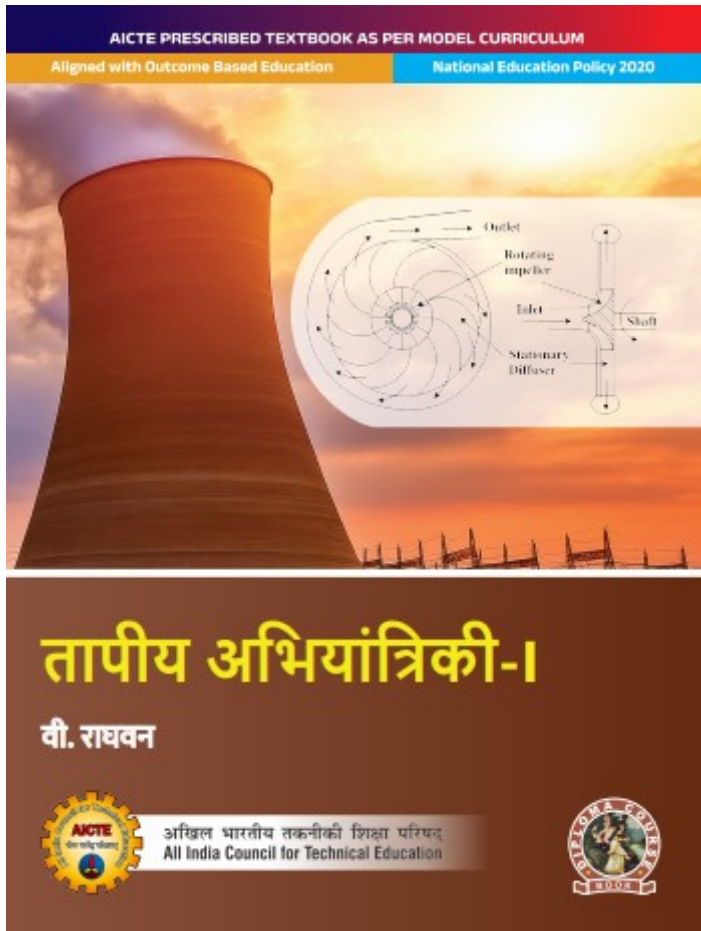
Energy Science and Engineering



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Thermal Engineering - I

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Product Description

Thermal Engineering - I This book introduces various energy sources; fossil and renewable fuels, their properties, followed by other non-conventional sources such as nuclear and fuel cells. It discusses the types of heat engines; diesel engine, petrol engine, their working principle, components and standard thermodynamic cycles. The book provides insights of various system and IC engines such as fuel injection system, ignition system, lubricating system and also briefly covers governing of IC engines. Further this book provides basic insights of the important parameters to evaluate the performance of I.C. engines. Finally, useful discussions on the fundamentals of air compressors and their types, vapour compression refrigeration system, types of refrigerants, types of air conditioning, and seasonal air conditioning. This book also presents the method to conduct experiments for measuring important properties used in the analysis. **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.
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- Solved and unsolved problems including numerical examples are solved with systematic steps.



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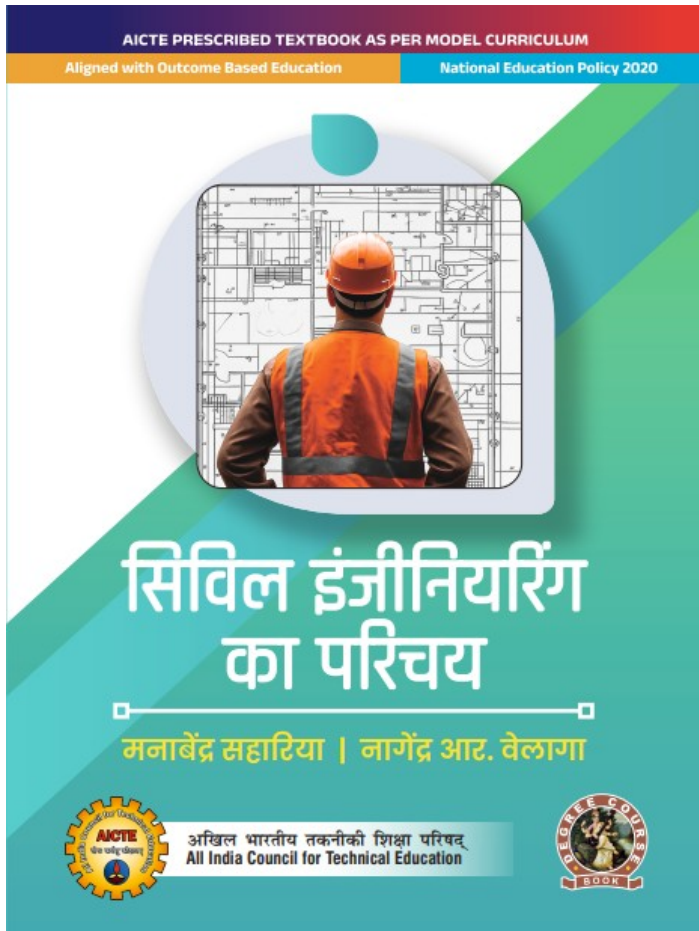
Dr. V. Raghavan



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Introduction to Civil Engineering

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Electronic Communication

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Condition Type :	New
Country Origin :	India

Product Description

Electronic Communication This book familiarizes the students to different domains of electronics communication. Main purpose of this book is to help students and researchers to understand basics of electronics communication. The main content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP) 2020. **Salient Features:**

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In start 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.
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- Noise
- Pulse Modulation
- Baseband receiver
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- Passband receiver

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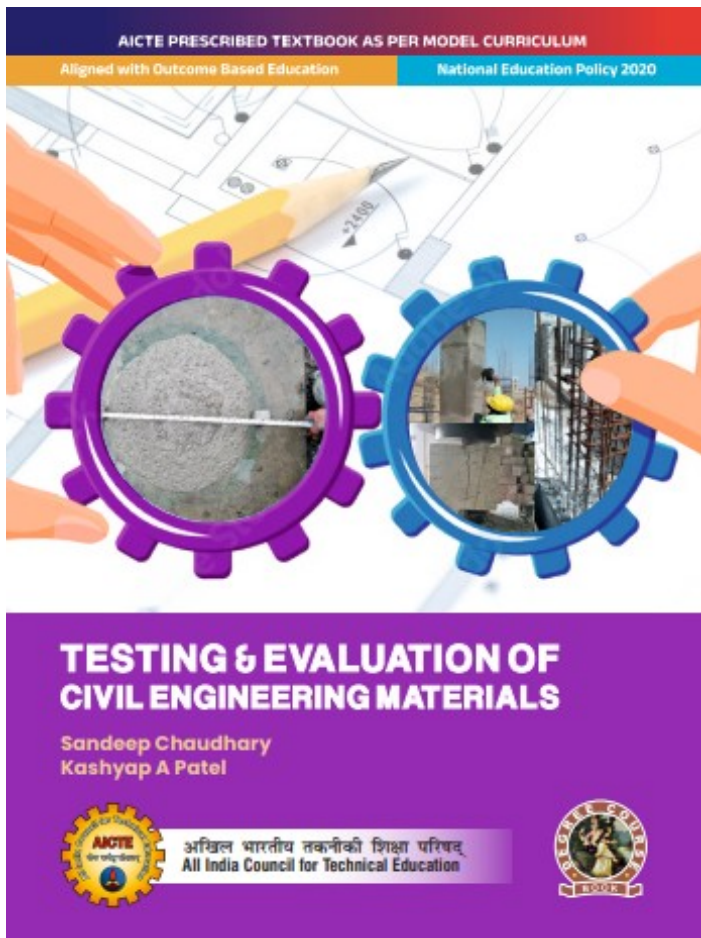
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Product Description

Testing & Evaluation of Civil Engineering Materials This book contains an introduction to civil engineering materials and an advanced discussion on their testing and evaluation procedure for fourth semester students of undergraduate degree course. Main purpose of the book is to help the students identify suitable civil engineering materials as per their needs, through a systematic testing and evaluation procedure. The book is designed as per syllabus and model curriculum of AICTE and aligned with the theme of outcome-based education according to National Education Policy 2020. 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.
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- Student and teacher centric subject materials included in book with balanced and chronological
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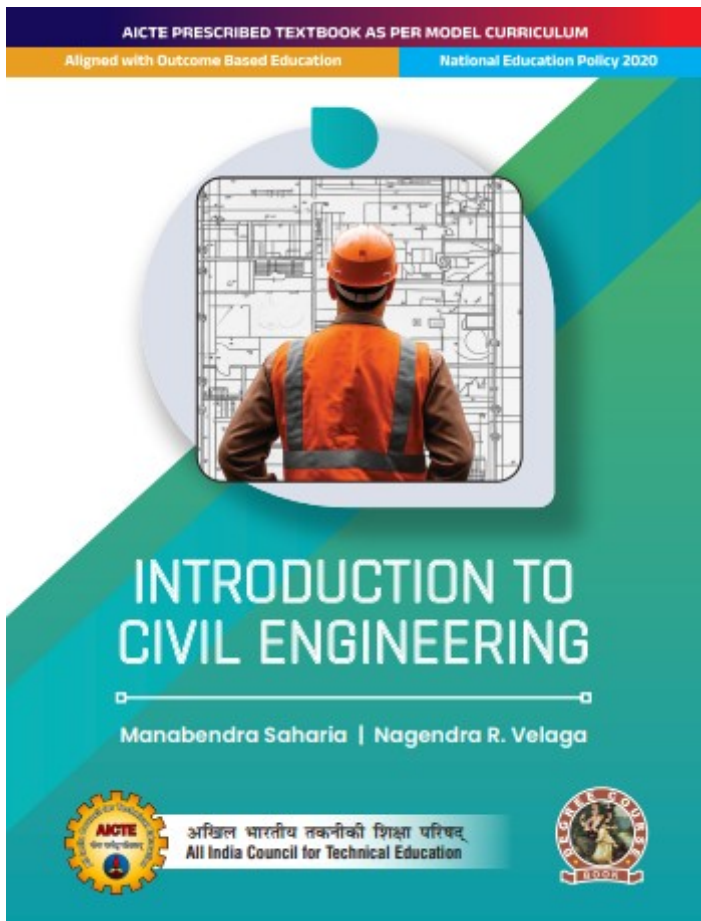
Dr. Sandeep Chaudhary Professor, Department of Civil Engineering Indian Institute of Technology Indore **Dr. Kashyap A Patel** Assistant Professor, Department of Civil Engineering Sardar Vallabhbai National Institute of Technology, Surat



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Introduction to Civil Engineering

Author :	Manabendra Saharia
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Product Description

Introduction to Civil Engineering This book has been written to provide a broad overview of Civil Engineering second year undergraduate students. Syllabus of this book is aligned with the AICTE model curriculum as per the National Education Policy (NEP) 2020. Each topic has been written in an easy and lucid manner with ample examples and QR code links to online resources. 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.
- Solved and unsolved problems including numerical examples are solved with systematic steps

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- STRUCTURAL ENGINEERING
- GEOTECHNICAL ENGINEERING
- WATER RESOURCES ENGINEERING AND SUSTAINABILITY
- TRAFFIC AND TRANSPORTATION ENGINEERING
- PRACTICAL ACTIVITIES

References Discussion QR Code for Further Reading



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Author

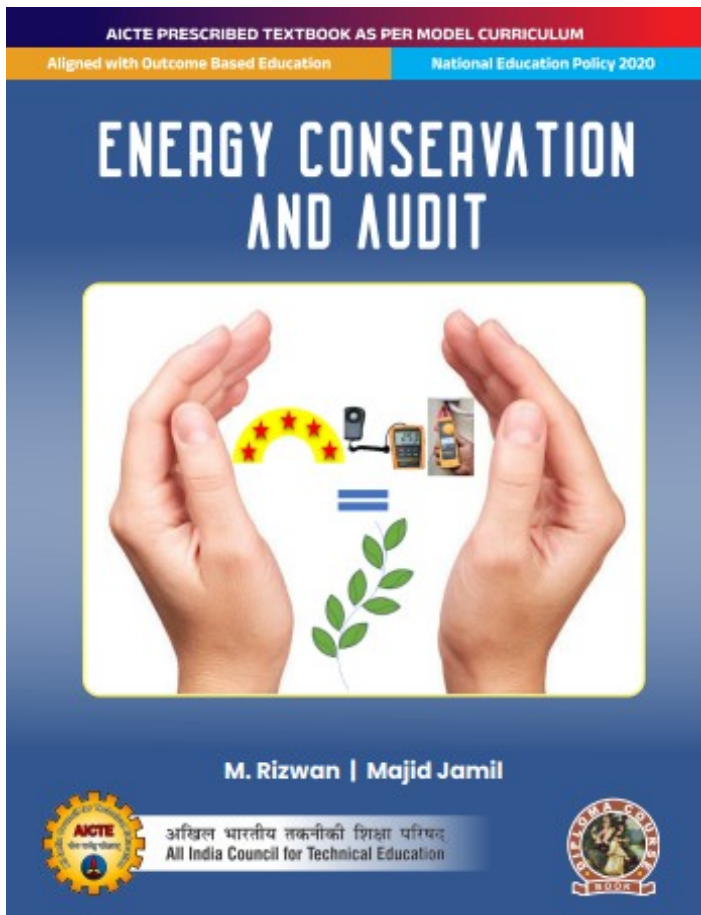
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Energy Conservation and Audit

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Condition Type :	New
Country Origin :	India

Product Description

Energy Conservation and Audit This book explains the concept of energy conservation and audit in simple language and students' friendly manner. The book is designed to cater the needs of diploma Engineering students seeking a hand on approach in the area of energy conservation, energy audit and energy management. The book comprises of five units that includes energy conservation basics, energy conservation in electrical machines, energy conservation in electrical installation systems, energy conservation through co-generation and tariff and energy audit of electricals system. 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.

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- Energy conservation Basics
- Energy conservation in Electrical Machines
- Energy conservation in Electrical installation systems
- Energy conservation through co-generation and tariff
- Energy Audit of electrical system

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Dr. M. Rizwan Professor Department of Electrical Engineering, Delhi Technological University, Delhi, INDIA **Dr.**

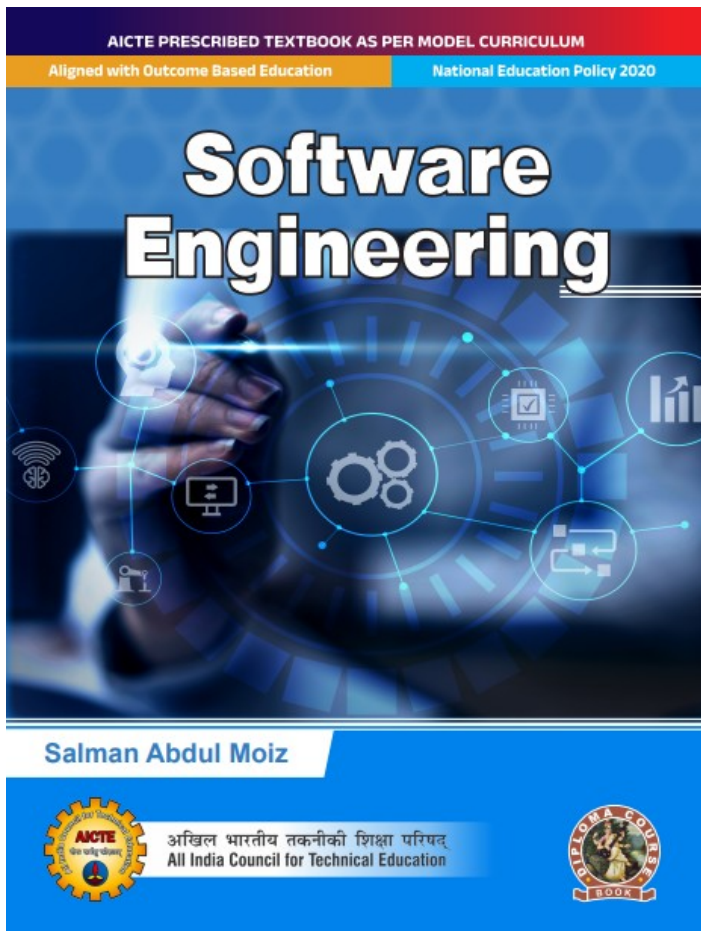
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Software Engineering

Author :	Salman Abdul Moiz
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Product Description

Software Engineering One of the software Engineering goals is to develop quality software within the estimated time and given budget. This requires a systematic approach towards the development and deployment of software. This practices, and processes for software development must be understood to deploy software efficiently. This book first introduces the concepts of software engineering. The process development methodologies and their applicability are presented. The rapid application development approach, which the industry desire for small and medium projects, is discussed. The standard practices used in each phase of software development, including requirements engineering, software design, testing, and project management, are presented in this book, emphasizing structured and object-oriented analysis and design paradigms. Salient features:

- The book's content is aligned with program outcomes, course outcomes, and unit outcomes.
- Learning outcomes are listed at the beginning of each unit to make students understand what is expected after completing each unit.
- The book provides examples that help in realizing the software process models.
- The exercises and case studies specified in the practical section help realize software by following the principles and practices of software development.
- The topics presented in this book help realize end-end software in any development paradigms.
- Apart from the essential information, a 'know-more' section is included in each unit to extend learning beyond the syllabus.
- The QR code and E-resources will help the learners refer to standards used in the software development process.
- Multiple choice, short-and long-answer questions are included at the end of each unit.
- Case study examples are given in units that help analyze, design, implement, and test the systems.



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- Software Development Life Cycle
- Requirement Engineering
- Software Design
- Software Testing
- Project Management

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Author

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Mathematics - I

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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:

- 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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Chapter 3: Differential Calculus.

Chapter 4: Complex Numbers and Partial Fraction.

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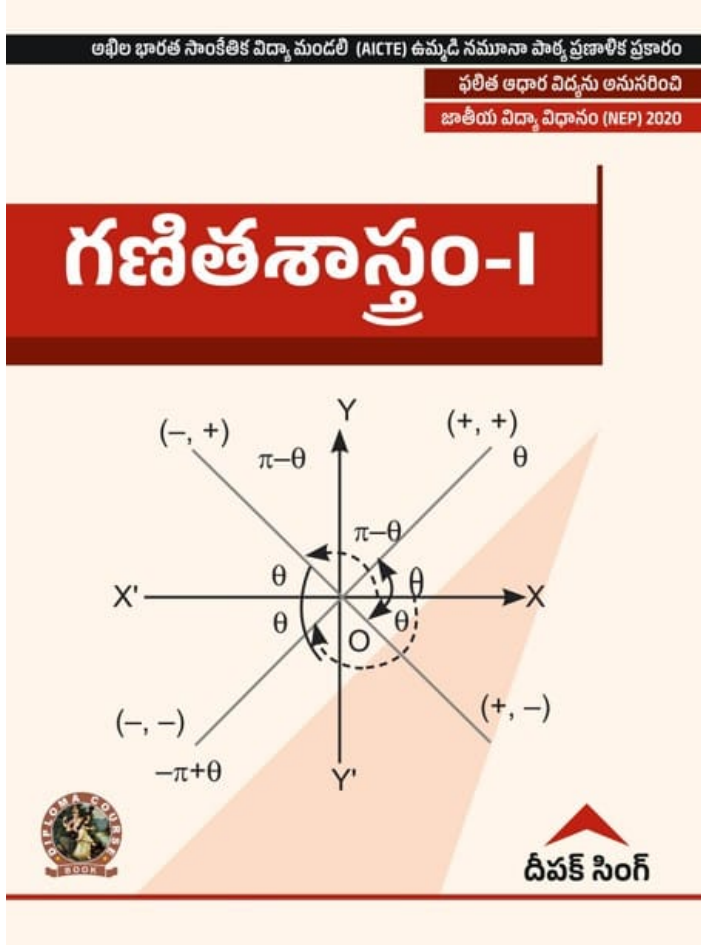
Deepak Singh



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Mathematics I

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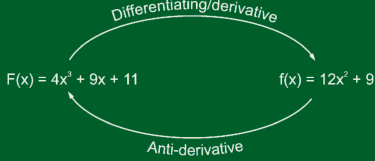
Author

Deepak Singh



ಮಾದರಿ ಪಠ್ಯಕ್ರಮದ ಅನುಸಾರ ಒದ್ದಿಸಿಟಿಳ ಶಿಫಾರಸು ಮಾಡಿರುವ ಪಠ್ಯಪುಸ್ತಕ
ಫಲಿತಾಂಶ ಆಧಾರಿತ ಶಿಕ್ಷಣದೊಂದಿಗೆ ಹೊಂದಿಸಲಾಗಿದೆ
ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿ 2020

ಗಣಿತ-II



$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} & \cdots & a_{1n} \\ a_{21} & a_{22} & a_{23} & \cdots & a_{2n} \\ \vdots & \vdots & \vdots & \vdots & \vdots \\ a_{m1} & a_{m2} & a_{m3} & \cdots & a_{mn} \end{bmatrix}$$



ಗರಿಮಾ ಸಿಂಗ್

Mathematics-II

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Product Description

“Mathematics-II” is a Compulsory paper for the first year students of Diploma engineering courses (common to all branches). Syllabus of this book is strictly aligned to the model curriculum of AICTE. And academic content is amalgamated with the concept of outcome based education. Apart from diploma it is useful for all students who are interested in basic /elementary mathematics and competitive examinations. Book covers seven topics- Determinants, Matrices, Integral Calculus and it’s applications. Co-ordinate Geometry and it’s applications, vectors and it’s applications, Differential equations. Basic of MATLAB. Each topic is written in an easy and lucid manner with a holistic view. There has been deliberated attempt to keep the number of pages in the book minimum without compromising with the matter. Every chapter contains a set of exercises at the end of each unit to test the student’s comprehension. Some salient features of the book: 1. For direct recapitulation of main concepts, formulae and results a brief summary of each unit has been given. 2. Objective questions and subjective questions are given for practice of students after every unit. 3. Content of the book is aligned with the mapping of Course Outcomes, Programs Outcomes and uni Outcomes. 4. Apart from the theory explanation and solved examples book provides for mini projects, activities, fun facts, QR codes, case studies, video resources etc. 5. The text has been supplemented with notes, remarks, remember sections within grey boxes. 6. Student and teacher centric subject materials are included in the book in a balanced manner. 7. Real life applications are inserted to improve clarity of this topics. 8. Know more section has been introduced which constitutes of additional information related to the topic. 9. Check-out section has been introduced so as to active the curiosity part of the student by correlating all the topics studied in this book with MATLAB. 10. At the end of each unit. An excerpt related to eminent Indian Mathematicians is given so as to make . 11. Student have a glimpse of



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Guidelines for Teachers,

Guidelines for Students

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Chapter 2: Integral Calculus.

Chapter 3: Co-ordinate Geometry.

Chapter 4: Vector Algebra.

Chapter 5: Differential Equations.

Chapter 6: Appendices & Annexures.

Author

GARIMA SINGH



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மாதிரி பாடத்திட்டத்தின்படி AICTE - ஆல் பரிந்துரைக்கப்பட்ட பாடப்புத்தகம்

வெளிப்பாடு அடிப்படையிலான கல்வியின்படி வடிவமைக்கப்பட்டது

தேசிய கல்விக் கொள்கை 2020

பொறியியல் பணிமனை பயிற்சி



முனைவர் அ. கு. சாரதி

Engineering Workshop Practice

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Product Description

“ Engineering Workshop Practice Manual” is a common paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education. Engineering Workshop Practice manual covers five units- First unit deals with the carpentry, second unit is about fitting , third unit focuses on welding, fourth units discusses about sheet metal working and the fifth unit deals with electrical house wiring . The manual comprises of total seventeen workshop practical from P1 to P17 and the same are arranged in hierarchical manner from simple to complex so that students should not only focus on completing the practical and getting the marks/ grades but will also be motivated to create useful products incorporating their creative and critical thinking as well. Some salient features of the book: 1. Content of the manual aligned with the mapping of Course Outcomes, Programs Outcomes and practical outcomes. 2. Relevant theory has been included at the beginning of each practical. 3. The manual has been developed to ensure alignment with the Outcome Based Education philosophy and consisting of total seventeen workshop practical. 4. Unit wise practical are arranged in hierarchical manner from simple to complex. 5. Manual provides recent information and QR Code for E-resources etc. 6. Figures, photographs and table are inserted to improve clarity of the content.

Table of Contents

Foreword, Acknowledgement, Preface, Outcome Based Educations, Course Outcomes, Abbreviations and Symbols, List of Figures, List of tables Guidelines for Teachers, Guidelines for Students **UNIT 1:** Carpentry. **UNIT 2:** Fitting. **UNIT 3:** Welding Tools and Equipment. **UNIT 4:** Sheet Metal Working. **UNIT 5:** Electrical House wiring. **Index**

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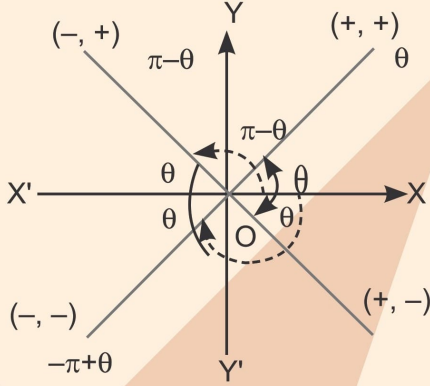
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தேசிய கல்விக் கொள்கை 2020

கணிதவியல்-I



தீபக் சிங்

Mathematics I

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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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Table of Contents

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