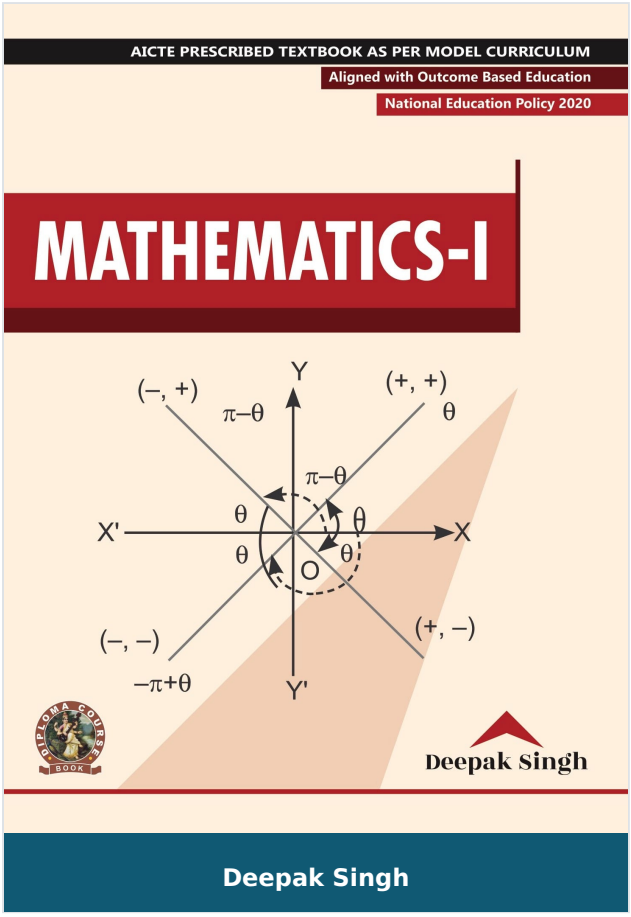

Mathematics I

Author :	Deepak Singh
ISBN 13 :	978-93-91505-42-4
ISBN 10 :	9391505422
E-ISBN 13 :	978-93-91505-42-4
Edition :	First
Pages :	180
Type of book :	Physical
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
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Country Origin :	India

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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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Table Of Contents

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

Author

Deepak Singh

Deepak Singh

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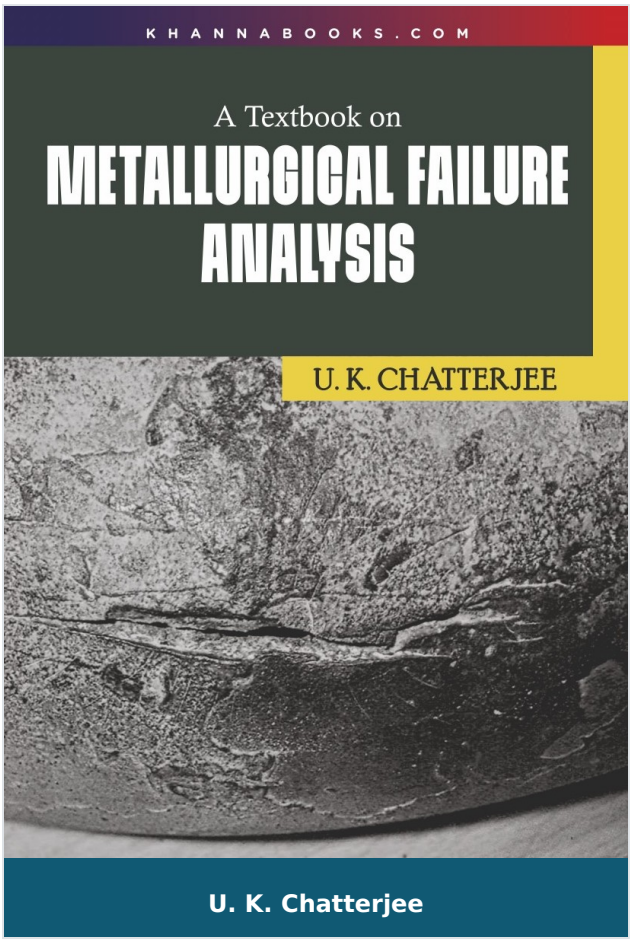

Textbook on Metallurgical Failure Analysis

Author :	U. K. Chatterjee
ISBN 13 :	978-93-55387-11-0
ISBN 10 :	9355387113
E-ISBN 13 :	978-93-55387-11-0
Edition :	1
Pages :	186
Type of book :	Physical
Year :	2025
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Publisher :	Khanna Publishing House
M.R.P :	Rs 398.00
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Condition Type :	New
Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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Product Description

A Textbook on METALLURGICAL FAILURE ANALYSIS: This handy textbook presents the basic causes of failure of metallic components and the factors – mechanical, metallurgical, thermal and environmental – that contribute to the failure. Basis of metal deformation and fracture, including fractography, are elaborated. Procedure for failure analysis has been explained and the tools used for failure analysis described. Several actual cases of failure investigation are included.

The classified types of failure covered in the book are:

- Fatigue failure
- Wear failure
- Environment assisted failure
- High temperature failure
- Casting failure
- Heat treatment related failure
- Metalworking defeat related failure
- Weld failure

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Table Of Contents

- Source of Failure
- Steps of failure analysis
- Tools of Failure Analysis
- Deformation Fundamentals
- Fracture of Metals
- Fatigue Failure
- Wear Failure
- Environment Assisted failure
- High Temperature failure
- Casting Failure
- Heat Treatment Related Failure
- Metalworking Defects
- weld failure
- Case Failure
- Suggested reading

Author

U. K. Chatterjee

K CHATTERJEE: obtained the B.Tech (1964) and Ph.D. (1968) degree in metallurgical engineering from the Indian Institute of technology , Kharagpur , and served as a faculty member there for 41 years, The author or co-author of 110 papers in professional journals and conference proceedings and co-author of the book ‘Environmental degradation of metals’ (Marcel Dekker . 2001). He is an alexander von Humboldt fellow and a life of IIT Kharagpur.

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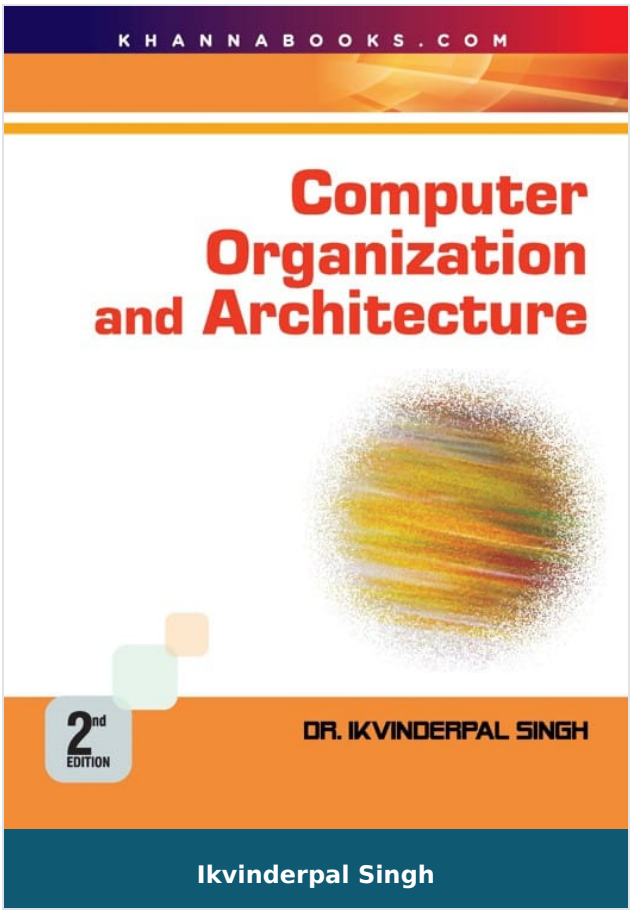

Computer Organization and Architecture

Author :	Ikvinderpal Singh
ISBN 13 :	978-93-55383-45-7
ISBN 10 :	9355383452
E-ISBN 13 :	978-93-55383-45-7
Edition :	2
Pages :	776
Type of book :	Physical
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Publisher :	Khanna Publishing House
M.R.P :	Rs 799.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
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Product Description

The title of our book, computer organization and architecture, is intended to convey that the topics presented in the text are those for which every Computer science major should have exposure, familiarity, or mastery. We do not expect students using our textbook to have complete mastery of all topics presented. it is our firm belief, however that there the certain topics that must be mastered; there are those topics for which students must have a definite familiarity; and there are certain topics for which a brief introduction and exposure are adequate. We feel our explanations, examples and exercises all combine to provide the student with a total learning experience that exposes the inner workings of a modern digital computer at the appropriate level. Like most books, we have chosen an architectural model, but it is one that we have designed with simplicity in mind.

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Table Of Contents

- Overview of Computer Organization
- Digital Logic Basics
- Combinational Circuits
- Sequential Circuits
- Number System and Codes
- Register Transfer Language
- Computer Organization and design
- Assembly Language
- Control Unit
- Central Processing Unit
- Central Processing Unit
- Pipeline and Vector Processing
- Input-Output Organization
- Memory System Design
- Introduction to Multiprocessors

Author

Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development

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courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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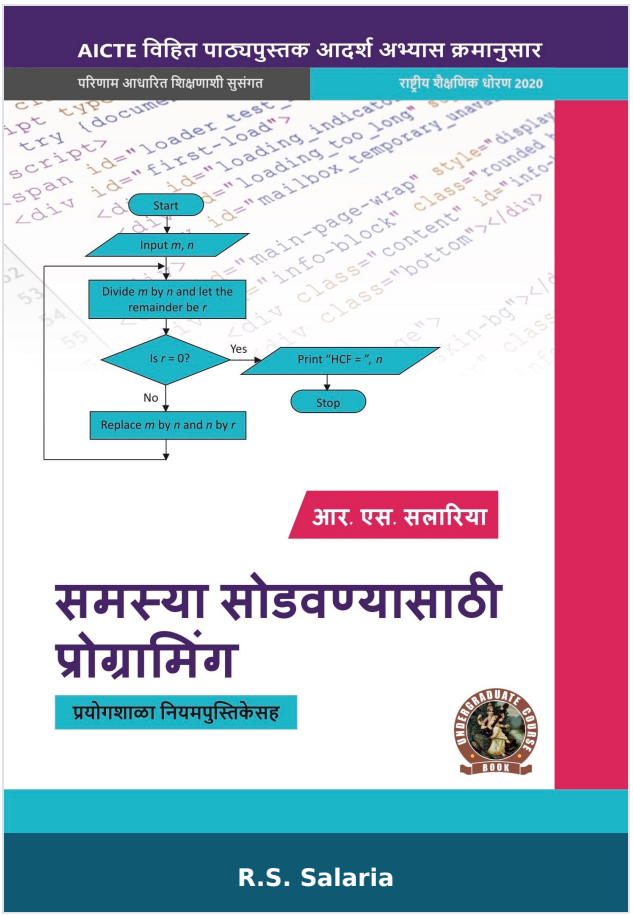

Programming for Problem Solving (with Lab Manual)

Author :	R.S. Salaria
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ISBN 10 :	9391505216
E-ISBN 13 :	978-93-55380-21-0
Edition :	First
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Categories :	AICTE Prescribed Textbooks, Marathi 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. Programming for Problem Solving (with Lab Manual) (Marathi).

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Programme Outcome (POs)
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Guidelines for Teacher
- Guidelines for Students
- Introduction
- to Programming
- Arithmetic
- Expressions and Precedence
- Conditional
- Branching and Loops
- Arrays
- Basic
- Algorithms
- Functions
- Recursion
- Structures

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- File
- Handling
- References for further learning
- Co and PO attainment Table
- Index

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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Engineering Mechanics (With lab Manual)

Author :	B. B. Gokaldas, Vandana Somkuwar
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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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Table Of Contents

- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and symbols,
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students,
- Basic of Mechanics and Force System.
- Equilibrium.
- Friction.
- Centroid and Centre of Gravity.
- Centroid and Centre of Gravity.
- Appendix.
- Index

Author

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B. B. Gokaldas B. G. Gokaldas

Vandana Somkuwar

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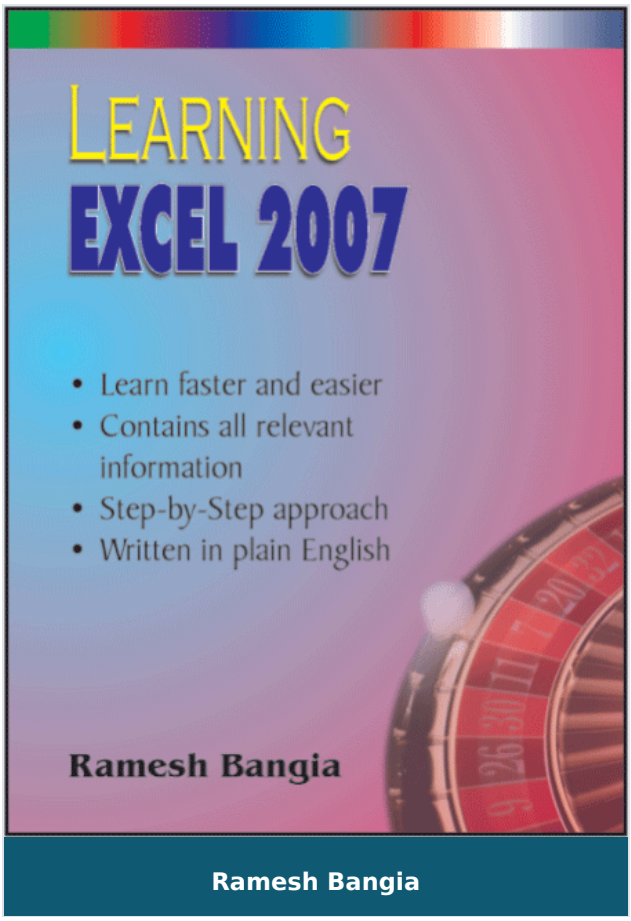

Ramesh Bangia

Learning Excel 2007

Author :	Ramesh Bangia
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Table Of Contents

- Introduction to Microsoft Excel 2007
- Spreadsheet Basics
- Creating a Spreadsheet in Excel 2007
- Advanced Techniques of Excel 2007
- Charts in Excel 2007
- Web and Excel 2007
- Validating Data in Excel 2007
- Importing Data in Excel 2007
- Functions in Excel 2007
- Keyboard Shortcuts in Excel 2007
- Questions

Author

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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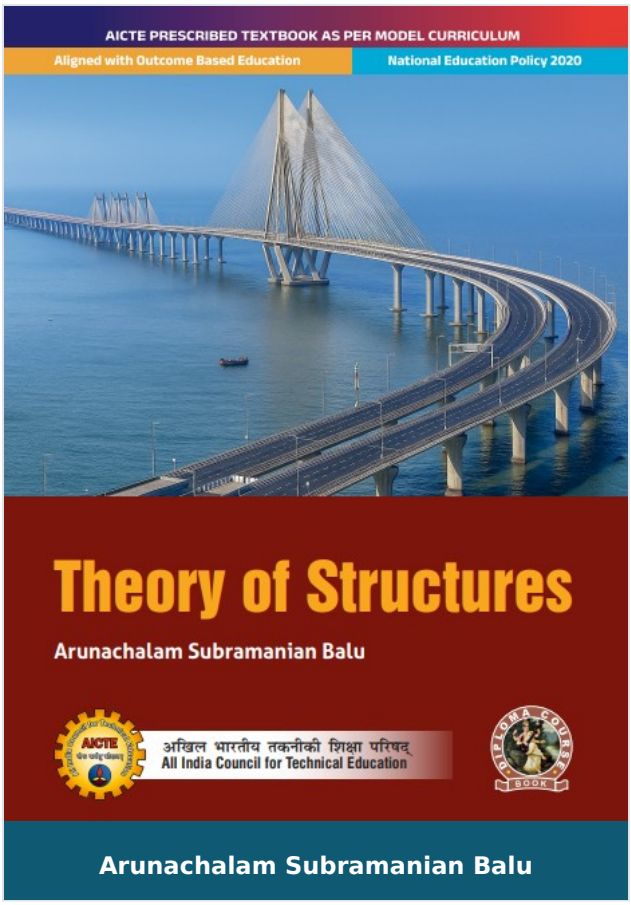

Theory of Structures

Author :	Arunachalam Subramanian Balu
ISBN 13 :	978-93-55387-33-2
ISBN 10 :	9355387334
E-ISBN 13 :	978-93-55387-33-2
Edition :	First
Pages :	276
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 498.00
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Condition Type :	New
Country Origin :	India

Product Description

Theory of Structures

Theory of structures is a basic core course developed for understanding the behaviour of structures. The presentation of physical principles founded in the field of mechanics can be used for understanding the behaviour of structures, which is the prerequisite for designing any structures. This book aims to help students in developing ability to analyze structures i8n a simple and logical manner. The contents are divided into five units as required for the students of diploma in civil engineering. The main contents of this book are aligned with the model curriculum of AICTE followed by the concept of Outcome based Education as National Education Policy (NEP)2020.

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

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- Solved and unsolved problems including numerical examples are solved with systematic steps

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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
- Direct and Bending Stresses
- Slope and Deflection
- Fixed and Continuous Beams
- Moment Distribution Method
- Simple Trusses
- Appendices
- References for Further Learning
- CO and PO Attainment Table
- Index

Author

Arunachalam Subramanian Balu

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Dr. Arunachalam Subramanian Balu Associate Professor, Department of Civil Engineering, National Institute of Technology, Karnataka, Surathkal, Mangalore, Karnataka

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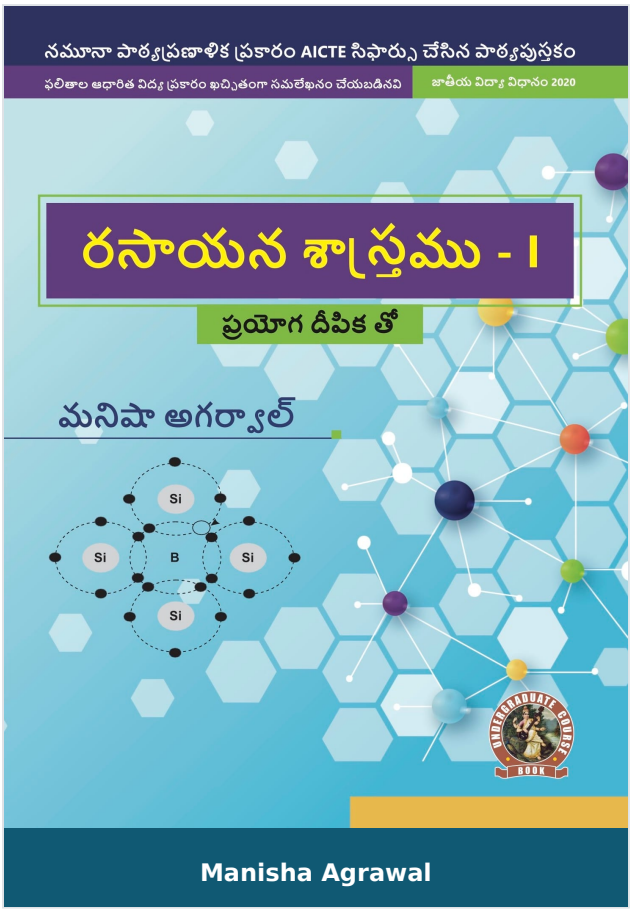

Chemistry I (with Lab Manual)

Author :	Manisha Agrawal
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E-ISBN 13 :	978-93-91505-48-6
Edition :	First
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Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
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Condition Type :	New
Country Origin :	India

Product Description

“Chemistry-I” is a compulsory paper for the first year Undergraduate 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. Book covers seven topics- Atomic and molecular structure, Spectroscopic Technique and applications, Inter-molecular Forces and Potential Energy Surfaces, Use of Free Energy in Chemical Equilibrium, Periodic Properties, Stereo-chemistry, Organic Reactions and Synthesis of Drug Molecules. Each topic is written is easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test student’s comprehension.

Salient Features:

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 us of ICT, Projects group discussion etc.

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

4. Figures, tables, chemical equations and comparative charts 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. Solved and unsolved problems including numerical examples are solved with systematic steps.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Guidelines for Teacher
- Guidelines for Students
- Atomic and
- Molecular Structure
- Spectroscopic
- Techniques and Applications
- Intermolecular
- Forces and Potential Energy Surfaces
- Use of Free
- Energy in Chemical Equilibria
- Periodic
- Properties
- Stereochemistry
- and Organic Reactions
- Organic

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- Reactions Synthesis of Drug Molecules
- Annexure
- Appendices

Author

Manisha Agrawal

Manisha Agrawal Dr. Manisha Agarwal is Dean, Basic Sciences at Chhattisgarh Swami Vivekanand Technical University Bhilai. Professor and head, Department of Chemistry at Rungta College of Engineering & Technology, Bhilai, (C.G.). She completed Ph. D. from Pt. Ravishankar Shukla University, Raipur in 1999. Since then she has been engaged in teaching and research. Dr. Manisha has authored several papers which have been published in SCI indexed International and National journals. She has organised more than 10 Conferences and workshops as convener among them four were International Conferences. She has credited five books as author, three patents as inventor and applicant and six Research Project Grants as Principal Investigator from Government Funding agencies like AICTE, CCOST and CSVTU. She has supervised 5 M. Phil. Students, 12 BE and Diploma students. Presently 6 research scholars are perusing Ph. D. under her supervision.

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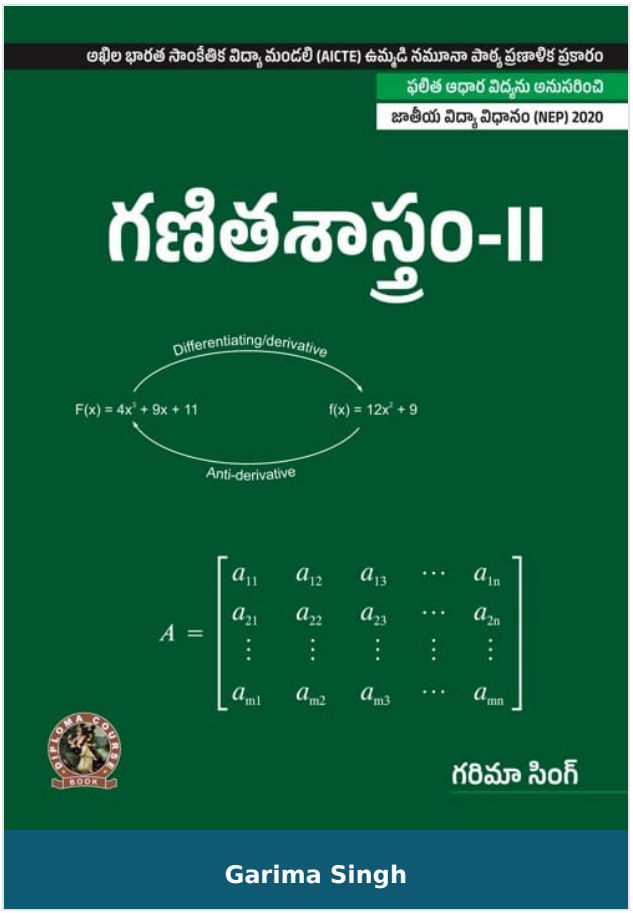

Garima Singh

Mathematics-II

Author :	Garima Singh
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ISBN 10 :	9391505872
E-ISBN 13 :	978-93-91505-87-5
Edition :	1
Pages :	204
Type of book :	Physical
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, Telugu Books, Book Store, Ebooks
Condition Type :	New
Country Origin :	India

Product Description

“Mathematics-ll” 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 unit 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.

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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 the rich Indian heritage, especially in the field of mathematics.

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Table Of Contents

- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and Symbols,
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students
- Determinants and Matrices.
- Integral Calculus.
- Co-ordinate Geometry.
- Vector Algebra.
- Differential Equations.
- Appendices & Annexures.

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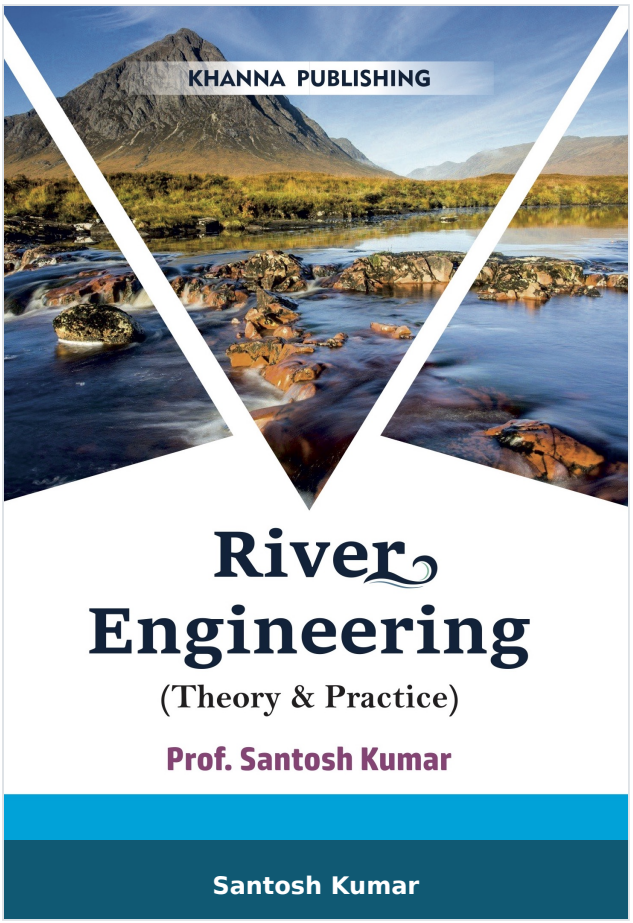

River Engineering

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Table Of Contents

- PART I
- Chapter
- River: The Great Source of Life
- River Morphology
- River Hydrology
- River Hydraulics
- PART II
- Chapter
- Sediment Characteristics
- Initiation of Particle Motion (Also known as Threshold of Movement of Incipient Motion)
- Bed Forms (Regime of Flow)
- Resistance to Flow (Channel Roughness)
- Estimation of Sediment Load
- Sediment Measurement Techniques
- Part III
- Chapter
- Methods of River Training
- River Gauging
- Flood & Flood Control
- River Ecosystem
- Interlinking of Rivers
- River Modelling

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