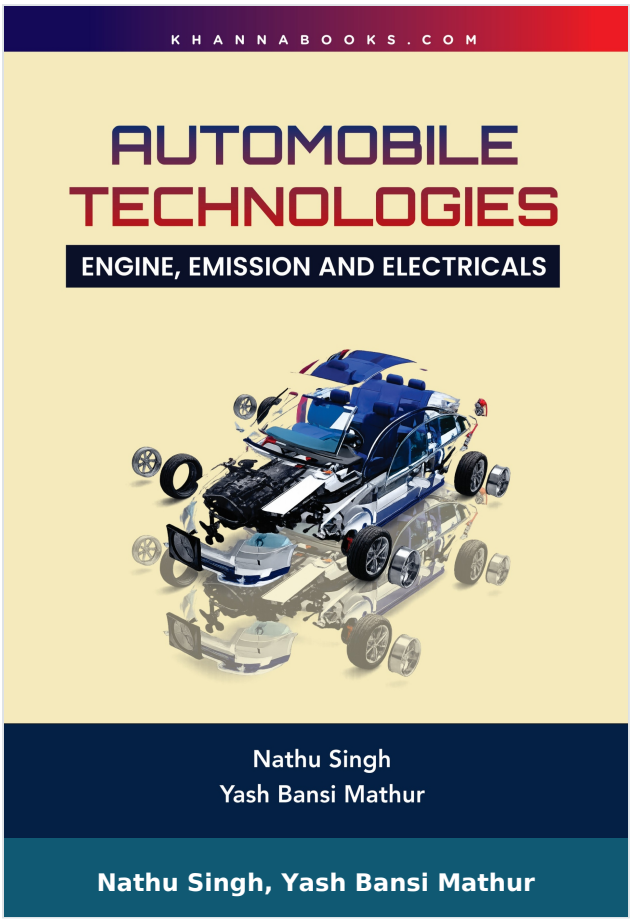


Automobile Technologies (Engine, Emission And Electricals)

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Product Description

Automobile Technologies (Engine, Emission And Electricals)

Automobile Technology-II is a comprehensive and academically rigorous guide designed to provide a deep dive into the advanced mechanical and electrical systems of modern vehicles. Developed in alignment with the latest National Education Policy, this textbook bridges the gap between foundational automotive principles and the rapidly evolving technological trends of the current market. The authors, Nathu Singh and Yash Bansi Mathur, meticulously cover critical areas including advanced engine designs, sophisticated vehicle control mechanisms, and the intricate electrical systems that define contemporary automotive engineering.

The book's primary purpose is to equip readers with both the theoretical knowledge and the practical technical skills necessary for professional competency in the automotive field. By exploring the relationship between heat, work, and gas properties through thermodynamics, and providing detailed breakdowns of components like reciprocating engines and ignition systems, it offers a holistic view of vehicle performance and efficiency. This makes it an essential resource for students of automobile engineering, professional technicians seeking to upgrade their skills, and researchers interested in the latest advancements in fuel economy, emission reduction, and vehicle safety. Whether you are preparing for gainful employment or looking to master complex engine supercharging techniques, this book serves as a definitive roadmap for excellence in automobile technology.

Salient Features:

- **Advanced Thermodynamic Insights**: Detailed exploration of gas laws, standard cycles like Otto and Diesel, and the principles of thermodynamics as they apply to internal combustion engines.

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- **Comprehensive Suspension Mechanics**: In-depth analysis of various suspension types, including leaf springs and shock absorption, focusing on maintaining vehicle stability and load-bearing capacity.
- **Precision Steering Systems**: Extensive coverage of steering gear mechanisms, from manual rack and pinion setups to modern hydraulic and electric power steering (EPS) systems.
- **Specialized Engine Components**: A thorough breakdown of reciprocating and rotating engine parts, including pistons, crankshafts, and the unique working principles of Wankel engines and gas turbines.
- **Cutting-Edge Electrical Systems**: Comprehensive guides to engine starting circuits, digital ignition systems, and modern lighting technologies such as halogen-quartz and sealed beam headlamps.
- **Advanced Induction Techniques**: Dedicated sections on engine supercharging, turbocharging, and scavenging processes aimed at improving engine power and volumetric efficiency.
- **Practical Vehicle Maintenance:** Technical focus on wheel alignment parameters like caster, camber, and toe, alongside common failure diagnostics for automotive air-conditioning systems.
- **Future-Ready Fuel Technologies**: Insightful discussion on the production and application of alternative fuels, such as methanol produced from biomass or solid waste, for sparking ignition engines.

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Table Of Contents

- : Motor Vehicle Technology -II
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- : Automobile Electrical Systems -II
- : Automobile Electrical Equipment -II
- : Alternative Fuel and Emission Control -II

Author

Nathu Singh

Nathu Singh,

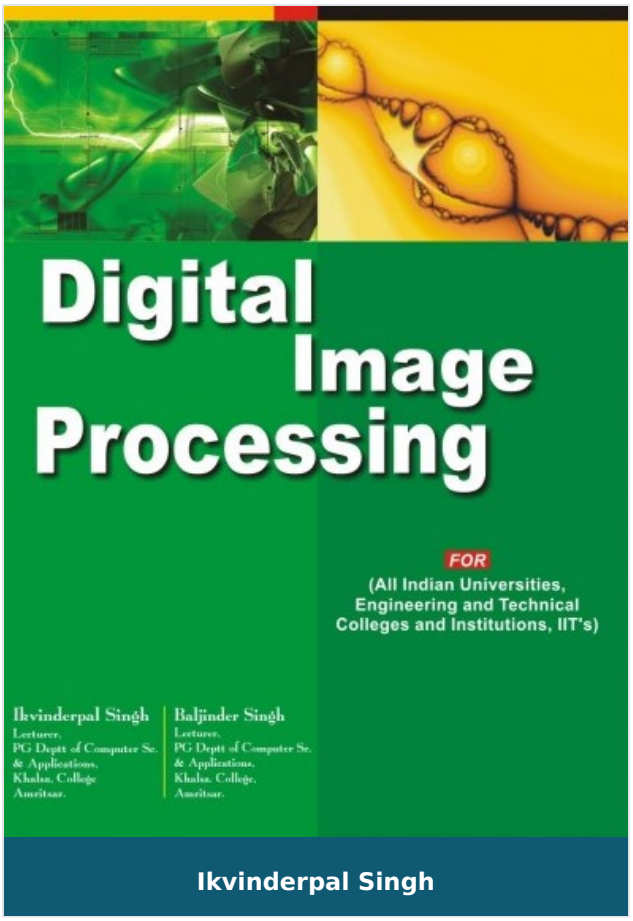
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Digital Image Processing

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Product Description

This book is written keeping in mind a beginner. This volume offers an exceptionally clear and thorough introduction to image processing at an elementary level. It provides the clear survey of basic fundamentals of image processing and various image processing techniques. In it, we emphasize mathematical analysis of image signal representation. hardware architecture for image processing and practical engineering problems in picture data archival, computer vision and medical imaging.

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Table Of Contents

- Background
- Fundamentals of Image Processing
- Image Signal Representation
- Image Enhancement
- Image Restoration
- Image Feature Extraction
- Image Data Compression and Statistical Pattern Recognition
- Hardware Architecture for Image Processing
- Techniques of Color Image Processing
- Applications of Image Processing

Author

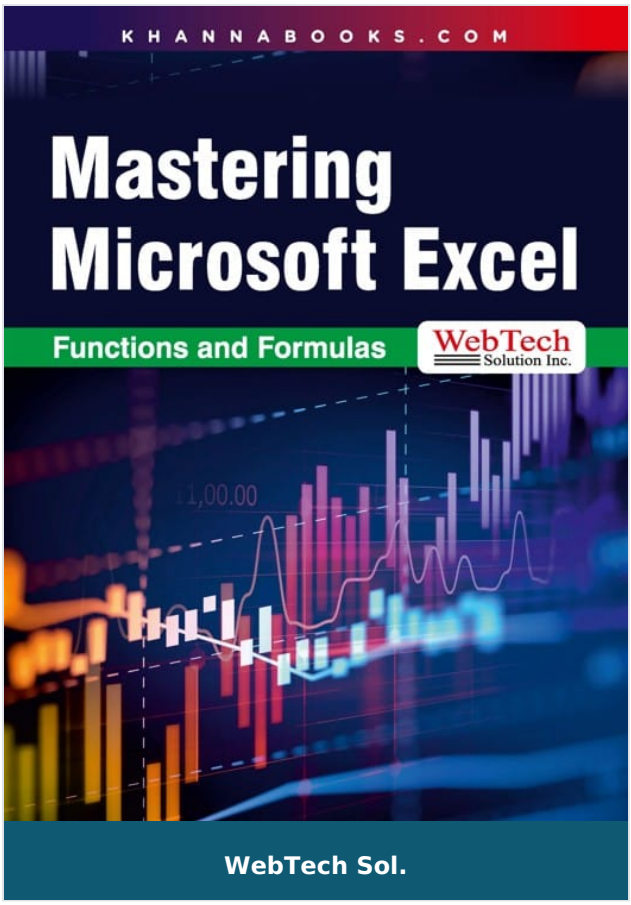
Ikvinderpal Singh

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

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Mastering Microsoft Excel Functions and Formulas

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Table Of Contents

- Spreadsheet Basics
- Advanced Techniques of Excel
- Charts in Excel
- Database Functions in Excel
- Text Functions in Excel
- Financial Function in Excel
- Information Functions in Excel
- Logical Functions in Excel
- Lookup and Reference Functions in Excel
- Math and Trigonometric Functions in Excel
- Logical Functions in Excel
- Data and Time Functions in Excel
- Keyboard Shortcuts in Excel

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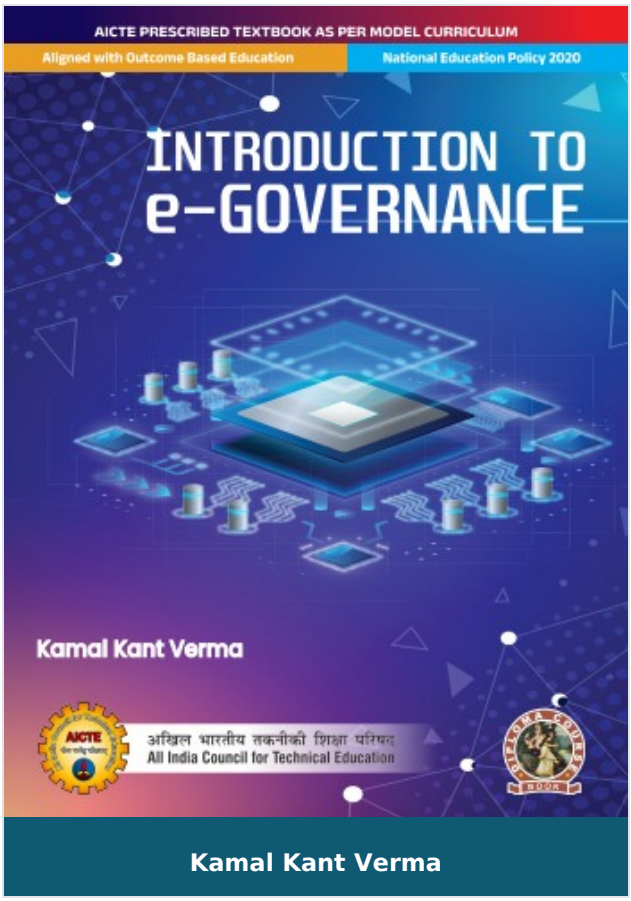
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Kamal Kant Verma

Introduction to e-Governance

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Product Description

Introduction to e-Governance

This book gives detailed description about introduction to e-governance, information and communication technology trends, e-government project, e-governance life cycle, architecture of e-governance and cyber laws. Logical organization and wide variety of e-governance with their detailed explanations makes this book a perfect offering on the subject.

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.
- After completion of each chapter, a summary of the unit is also provided apart from essential information.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- After each chapter` references and suggested readings’ is also provided for deeper understanding of the concepts.

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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 Figures
- Structure of computers
- Government process re-engineering
- Architecture and models of E-governance
- Focus on Indian initiatives
- Evaluation of e-governance projects
- References for Further Learning
- CO and PO Attainment Table
- Index

Author

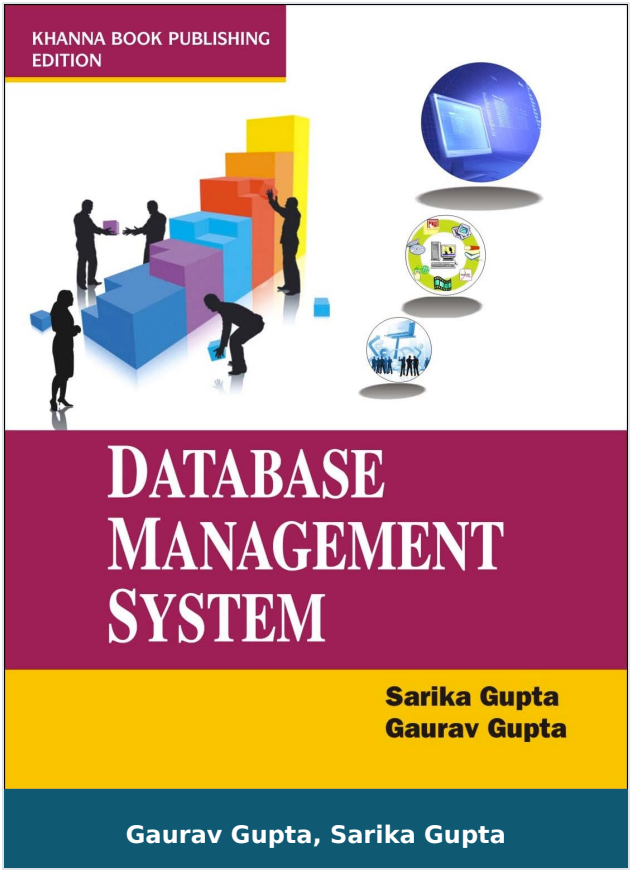
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Database Management Systems

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Product Description

This text book is designed to meet the requirements of the students of postgraduate and undergraduate engineering students of various branches. The book offers the concise coverage of the fundamentals of Database, Database Structures, data Modeling, ER Diagram, Introduction on SQL, Database Design, MySQL, Oracle and Distributed database etc. This book comprises of various realistic pictures in each of the chapter to give the real feel of the subject to the reader for better understanding.

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Table Of Contents

- Introduction to Basics of Database Management System
- Data Modeling Using the E-R Model
- Relational Data Model and Language
- Introduction to SQL
- Data Base Design and Normalization
- Transaction Management and Processing Concepts
- Serializability
- Concurrency Control Techniques
- Distributed Database Concepts
- Lab Guide
- Objective Type Questions of DBMS and PL/SQL
- Introduction to My SQL and Oracle
- Question Bank
- Model Papers
- Previous Year asked Questions with Solutions
- Previous Year Questions Papers
- Index

Author

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Gaurav Gupta is currently working as Manager Client Services in an IT MNC. He has more than Nine years of corporate experience with different MNCs. He has published Research Papers in various international Journals and attended conferences at several states. His area of interest includes Server and Databases, Data Center technologies and IT

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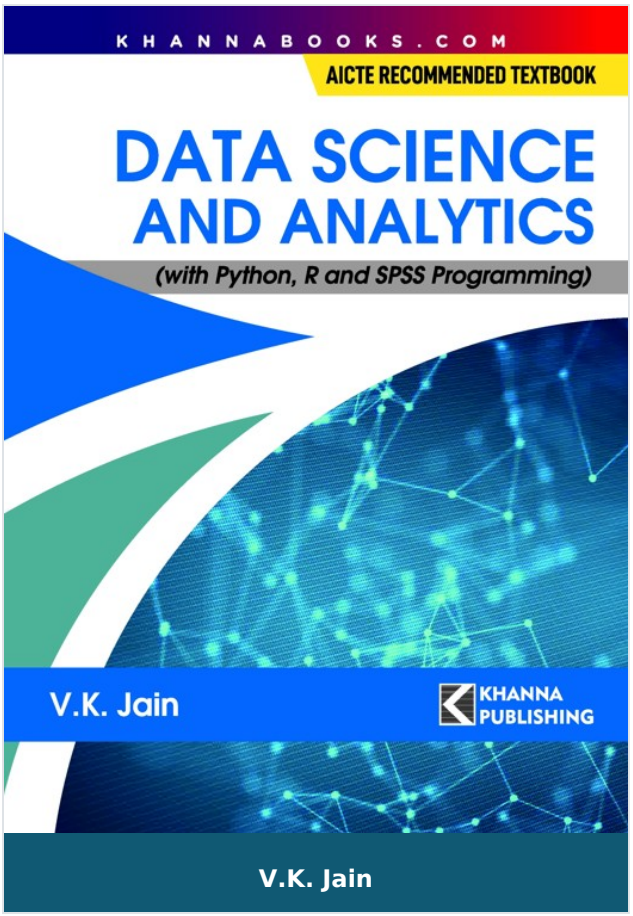
Sarika Gupta

Sarika Gupta Sarika Gupta is currently working as Assistant Professor in the Department of Computer Science and Engineering at Dronacharya College of Engineering, Greater Noida. She has more than six years of teaching and corporate experience. She has already published Research Papers in various international Journals and conferences of repute. Her area of interest and research includes AdHoc Network, Java, Object Oriented System and Soft Computing etc.

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Data Science and Analytics (with Python, R and SPSS Programming)

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Product Description

The overall goal of the book is to provide a broad understanding of big data, data science and analytics in an integrated manner.

While composing this book my intention was not to introduce a collection of new techniques and protocols, but rather to selectively present techniques from those currently available in the public domain.

Computer science has the greatest drawback of non-standardization of the stuff, not only of its software but in courseware also. A vast amount of curriculum exists at different levels of various Universities. As such I have tried to include all desired courseware from the syllabi for different levels.

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Table Of Contents

- Unit-1: Introduction to Data Science
- Unit-2: Data Management Using 1BM SPSS
- Unit-3: Data Analysis Using R Programming Language
- Unit-4: Data Visualisation
- Unit-5: Application of Data Science, Technology for Visualisation and Bokeh
- Unit-6: Recent Trends in Data Science
- Annexure-1: R Programming Language & Software Environment for Statistical Analysis and Graphics

Author

V.K. Jain

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that

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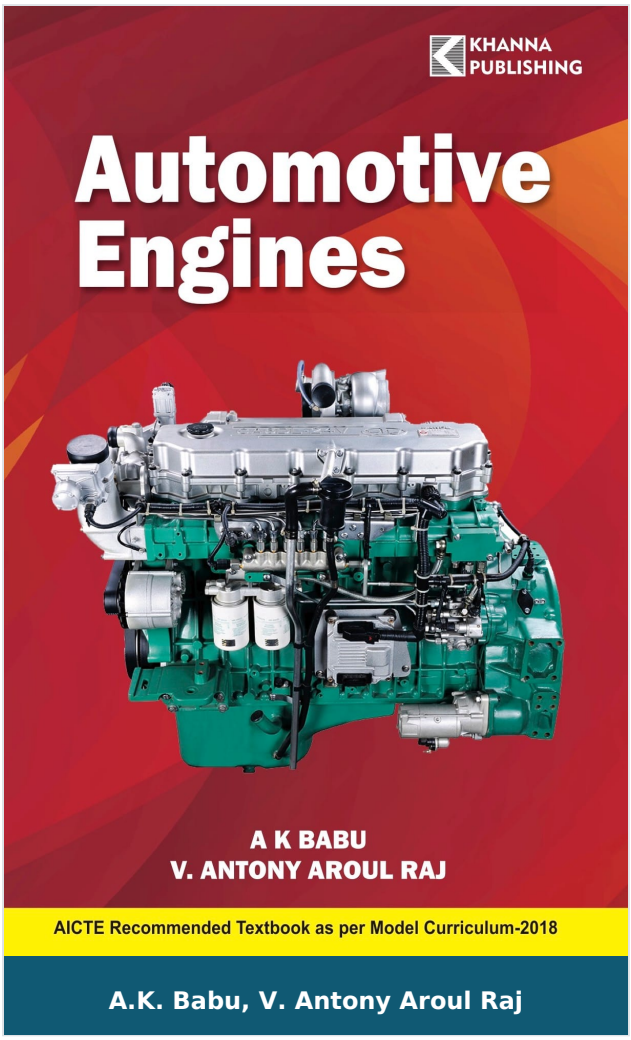
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time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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Automotive Engines

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Product Description

This book is designed to meet the requirements of the students of Mechanical Engineering and Automobile Engineering. It is based on the latest syllabi prescribed by different Technical Colleges and Universities in India. Each chapter is describes in simple, non-technical language and explains by clear illustrations that how engine parts and systems are constructed, how the part works, and what is required to maximize performance in terms of power, speed, economy and safety.

The important short and long review questions which the are included at the end of each chapter are taken from previous semesters question papers of various Technical colleges and Universities. This book is intended to be used as a Text and for Reference by colleges and technical universities offering subjects like Automotive Engines and Internal Combustion Engines.

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Table Of Contents

- Engines
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- Combustion in Engines
- Turbocharging and Supercharging
- Engine Testing
- Cooling and Lubrication
- Emission and Control
- Review Question

Author

A.K. Babu

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V. Antony Aroul Raj

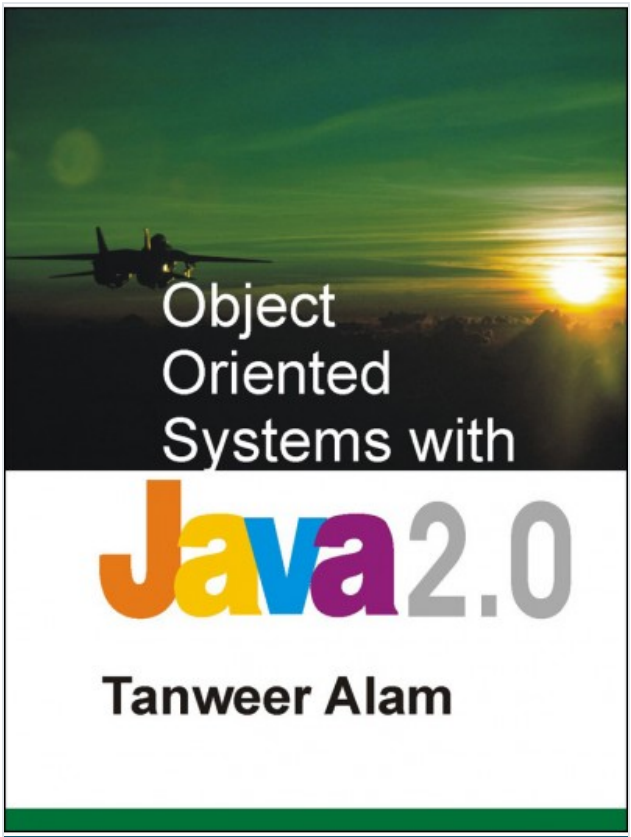
V. Antony Aroul Raj Dr.V.Antony Aroul Raj is a Professor in the Department of Mechanical Engineering, SRM Easwari Engineering College, Chennai, India. He has over 15 years of research and teaching experience. Dr.V.Antony Aroul Raj obtained B. E. Degree in Mechanical Engineering from the Pondicherry Engineering College (1993) and a Ph.D in

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Tanweer Alam

Object Oriented Systems with Java 2.0

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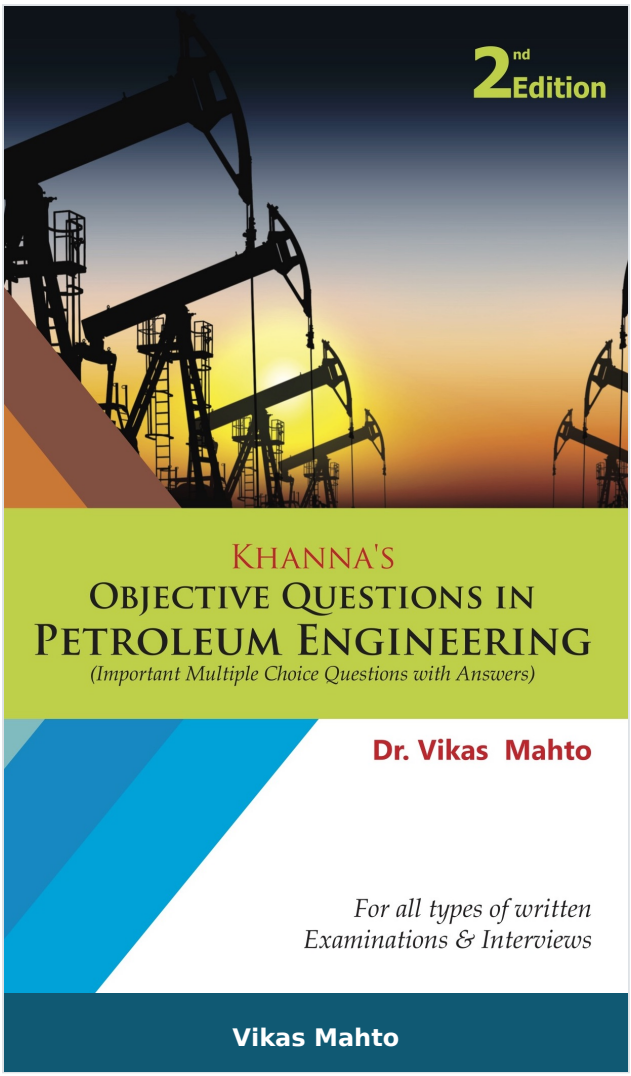
Tanweer Alam

Tanweer Alam has an experience of more than seven years in the Teaching field. Currently, He is working at MCA Department, Meerut Institute of Engineering and Technology, Meerut. He has got his MCA Degree in 2003 from UP Technical University, Lucknow, UP. He has got his Master Degree in Mathematics in 2000 from CCS University, Meerut, UP. He has got his MPhil Degree in Computer science in 2007 from MKU, Madurai. He is also MTech in IT and currently, He is doing PhD in Computer Science & Engineering. He presents more than thirty research papers in various reputed national/international Conferences/Journal.

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Khanna's Objective Questions in Petroleum Engineering

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Product Description

In this book, an attempt has been made by the author to present numerous important questions with answers which have been methodically prepared/selected from different text books, manuals of petroleum industries, SPE technical chapters and teaching materials of distinguished persons. These questions are very relevant for promoting fundamental understanding of petroleum engineering and will be primarily useful for fresh graduates of petroleum engineering who can prepare themselves soundly for both written as well as oral examinations. The hints and solutions of most important questions are included in this book.

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Table Of Contents

- Petroleum Exploration
- Oil and Gas Well Drilling Technology
- Reservoir Engineering
- Petroleum Production Operation-I
- Petroleum Production Operation-II
- Offshore Drilling and production Practices
- Petroleum Formation Evaluation
- oil and gas Well Testing
- Health safety and Environment in petroleum Industries
- Enhanced Oil Recovery Techniques
- Unconventional Hydrocarbon Resources
- Hints and Solutions

Author

Vikas Mahto

Dr.Vikas Mahto is an Associate Professor in the petroleum Engineering Department of Indian School Of Mines Dhanbad, India. He has received his Ph.D. degree in petroleum Engineering from Indian School of Mines Dhanbad in 2004. He is having more than 12 years of teaching experience in the field of Chemical Engineering and Petroleum Engineering. He is the author of more than 100 technical papers in different national/International journals 7 conferences of repute. He has completed three research projects sponsored by UGC-ISM, UGC New Delhi and CSIR New Delhi and currently working on collaborative project with Oil India India Ltd, Duliajan, Assam. He has field two Indian Patents. He is the reviewer and member of editorial boards of many national and

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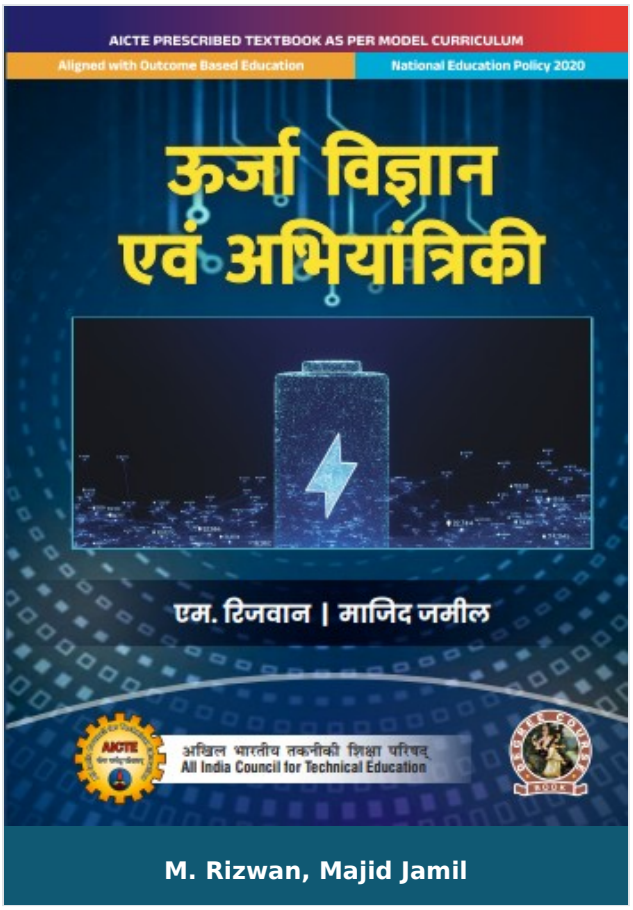
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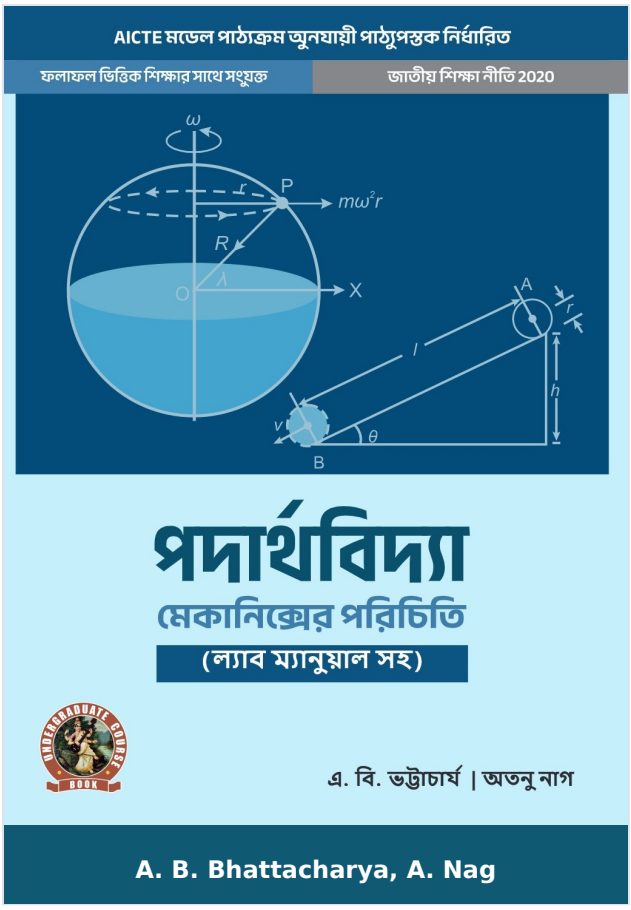
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Product Description

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

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

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· Under problems in a very logical and systematic manner.

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

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Table Of Contents

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

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

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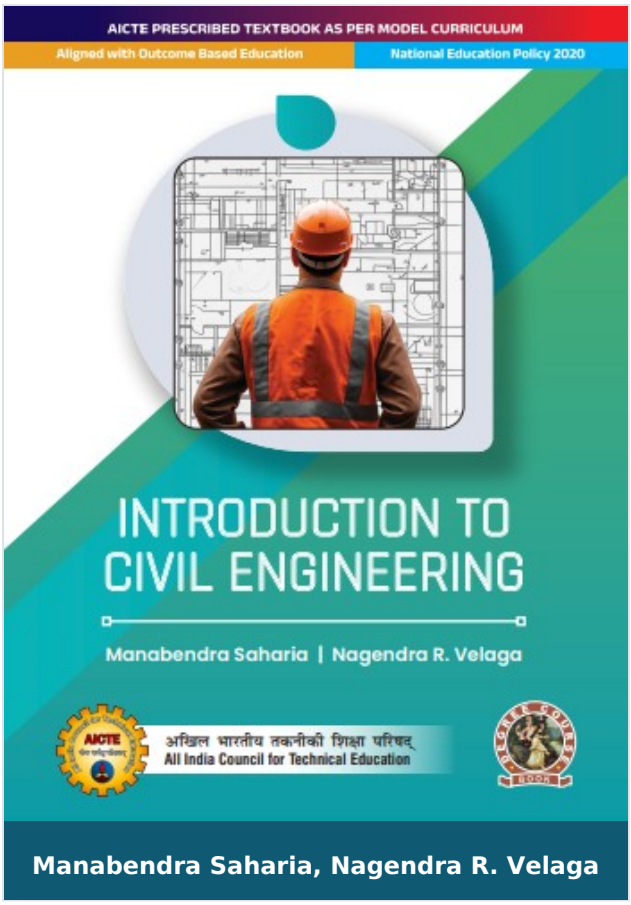
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Introduction to Civil Engineering

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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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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
- OVERVIEW OF CIVIL ENGINEERING
- STRUCTURAL ENGINEERING
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