

## Information Security- a Practical Approach

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## Product Description

The book Information Security-A Practical Approach, is a strenuous attempt taken by the authors to encapsulate concepts of Network-Security. Information security, something shortened to InfoSec, is the modification, inspection, recording or destruction of information. This book provides a rudimentary and firsthand knowledge on Information Security pertaining to the standards and procedures available in Information Security, the implementation of security and authentication algorithms which is the need of the hour for the small scale industries. The components of the chapters give a perspicuous view on confidentiality, integrity, availability, policy and its various types, encryption, decryption and so forth to cater not the needs of the working professionals and entrepreneurs as well. Especially the chapter on case studies provides hands on experience and reiterates the significance of protecting data and information. The prime objective of this book is to enable the entrepreneurs of Small Scale Industries to ensure secrecy and privacy of information. There has been a vast study on physical security and network security whereas information security is the latest process that gains momentum. We feel obliged to share our knowledge, analysis and recommendations through this manual which will create awareness among the entrepreneurs, about the paramount important of Information Security and to understand the easiest way to implementation those algorithms.

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### PREFACE

**Chapter 1:** An Overview of Information Security.

**Chapter 2:** Organization Strategies for Information Security.

**Chapter 3:** Essential Mathematics for Information Security.

**Chapter 4:** Standard Security Algorithms.

**Chapter 5:** Implementation of Security Algorithm.

**Chapter 6:** Case Studies.



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## Authors

**Dr. V. Vasudevan** is Registrar and senior professor of Kalasalingam Academy of Research and Education, Krishnankoil, Srivilliputtur, Virudhunagar district, Tamilnadu, India. He complete his PhD in Madurai Kamaraj University, Madurai, Tamilnadu. His area of interest includes Discrete Mathematics, Network Security, Cloud computing, Big Data Analytics, Internet of Things etc. He has more than 34 years of Teaching and Research Experience. He has more than 100 publications in national and international reputed journals. He received D.Litt award from International Economics University (SAARC Countries). He was honored with Dr. APJ ABDHUL KALAM AWARD for Life Time Contribution in Teaching and Research. He is a life time member of ISTE. He received National Information Technology Awareness Award from government of India. He supervised 16 PhD thesis. **Dr. S.**

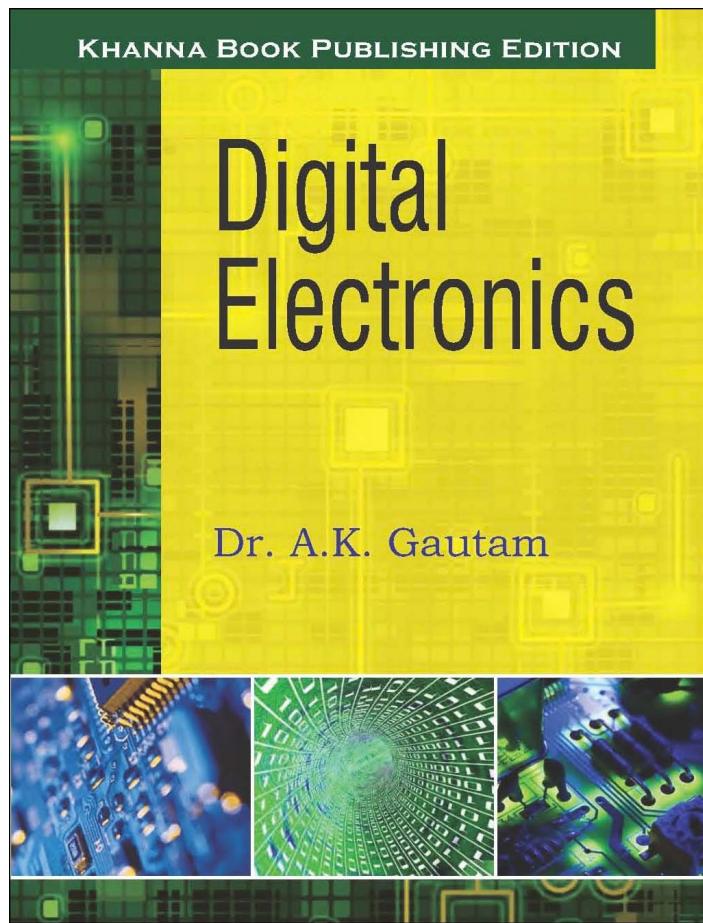
**Dhanasekaran** finished his Under Graduate Degree, B. E., in Computer Science and Engineering from Madurai Kamarajar University, Tamilnadu, with first class in the year 2004. He received Post Graduate Degree M.E., (CSE) in First class with Distinction from Annamalai University, Tamilnadu in the year 2007. He secured his Academic career as Lecturer in Department of IT in Arulmigu Kalasalingam College of Engineering (AKCE) in 2008. Now he has been working as Associate Professor in the Department of CKE, Kalasalingam University. He has completed Ph.D., (Cloud Computing) in the year 2017 at Kalasalingam University. He is highly motivated, well-disciplined professional with 11-years of Teaching Experience in the area of Computer science & Engineering. He is a Life time member of ISTE and IEEE. He received the Best Research paper Award, Teaching Competence Award, Faculty Advisor ship Award and Motivational Awards for 100% Attendance in the Academic Year(2015-16) at Kalasalingam University. He acted as a Resource person and convener for conducting various FDP, Conference, and Workshops. Moreover he has publishing more than 20 Research papers in which SCOPUS- and SCI Indexed Journals with Impact Factor. **Dr. B. S. Murugan** Received the Undergraduate Degree (B.Tech) in Information Technology from Anna University, the Post Graduate degree (M.Tech) in Information Technology from SRM University and Ph.D in Information Technology (Cloud Computing) from Kalasalingam University. He has more than 10 publications in National, International Conference and International Journal proceedings. He has 10 years of teaching experience. His areas of interest include, Cloud Computing, Big Data, Operating Systems and DBMS etc. He has undergone training in Regional Remote Sensing Service Centre, Indian Space Research Organization, Bangalore. He received the '**Best Motivator**' award from Indian Medical Association (IMA) Madurai branch. He is a life time member of ISTE. He is currently working as Associate Professor in the Department of **Computer Science and Engineering** at Kalasalingam Academy of Research and Education, Krishnakoil, Srivilliputtur, Virudhunagar district, Tamilnadu, India.



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## Digital Electronics

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<b>M.R.P :</b>	Rs 325.00
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<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

Each topic is well explained by illustration and photographs. A large number of solved problems, unsolved problem, and the each chapter are summarized in the end. In view of various competitive examination the multiple choice questions with answers is also given in the books. Further, to facilitate the student towards practical, lab experiments and various questions for viva voice is also provided.



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## Table of Contents

**Chapter 1:** Number Systems and Computer Codes. **Chapter 2:** Boolean Algebra and Logic Gates. **Chapter 3:** Simplification of Boolean Functions. **Chapter 4:** Combinational Logic Circuits. **Chapter 5:** Sequential Logic Circuits. **Chapter 6:** Shift Registers. **Chapter 7:** Counters. **Chapter 8:** Memories. **Chapter 9:** Asynchronous Sequential Circuits. **Chapter 10:** Logic Families. **Chapter 11:** D/A and A/D Converters. **Chapter 12:** Hazards and Fault Detection.

## Author

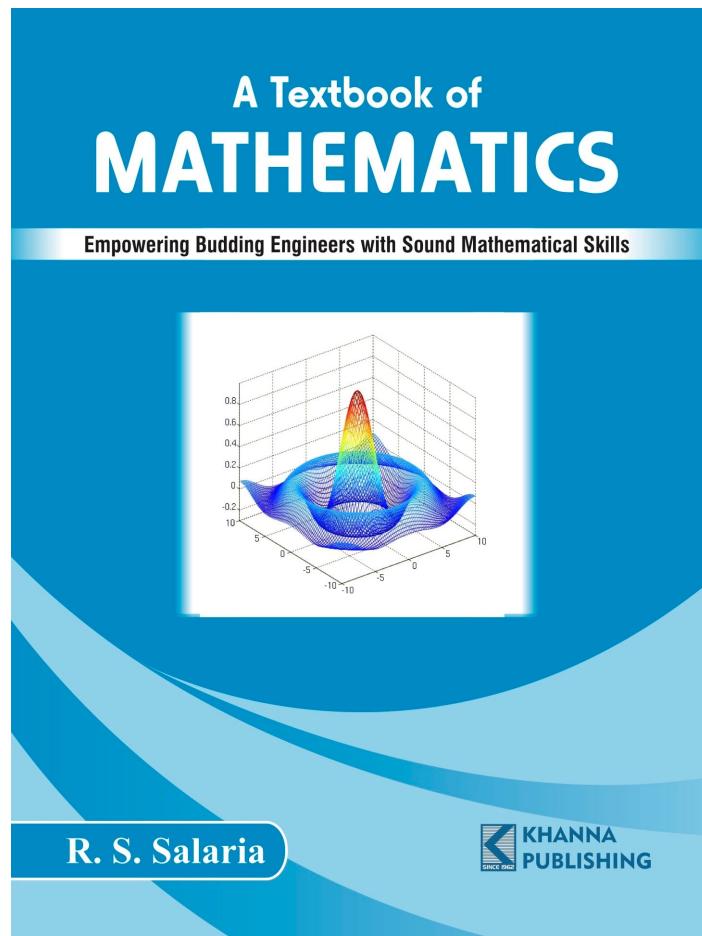
**Dr. A.K. Gautam** Dr. A.K. Gautam received Ph. D. degree in Electronic Engineering from Indian institute of Technology. Banaras Hindu University, Varanasi, India, in 2007. prof. Gautam is a senior faculty member in the Department of Electronics & Communication Engineering. G.B. Pant Engineering College, Pauri Garwal, India. Dr. Gautam is an active member many academic committees of different Institute and Universities of repute. he is a member of IEEE (USA).



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## A Textbook of Mathematics

<b>Author :</b>	R.S. Salaria
<b>ISBN 13 :</b>	978-93-89139-02-0
<b>ISBN 10 :</b>	93-89139-02-3
<b>E-ISBN 13 :</b>	978-93-89139-02-0
<b>Edition :</b>	First
<b>Pages :</b>	420
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<b>Publisher :</b>	Khanna Publishing House
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<b>Categories :</b>	<a href="#">APPLIED SCIENCES &amp; HUMANITIES</a> , <a href="#">APPLIED SCIENCES &amp; HUMANITIES</a>
<b>Condition Type :</b>	New
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### Product Description

This book is designed to serve as a textbook for the students taking this subject. It is a book with a difference from other textbooks as it lays more emphasis on the conceptual concepts that are supported by illustrative examples, plenty of challenging theory and programming exercises, to test your knowledge acquired on the subject.

While writing the book, special emphasis is given to keep the language very simple and lucid level of presentation is kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease. Practically this book will provide you every things you need on the subject.



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## Table of Contents

**Chapter 1:** Matrices. **Chapter 2:** Infinite Series. **Chapter 3:** Partial Derivatives. **Chapter 4:** Multiple Integrals.

**Chapter 5:** Vector Calculus.

## Author

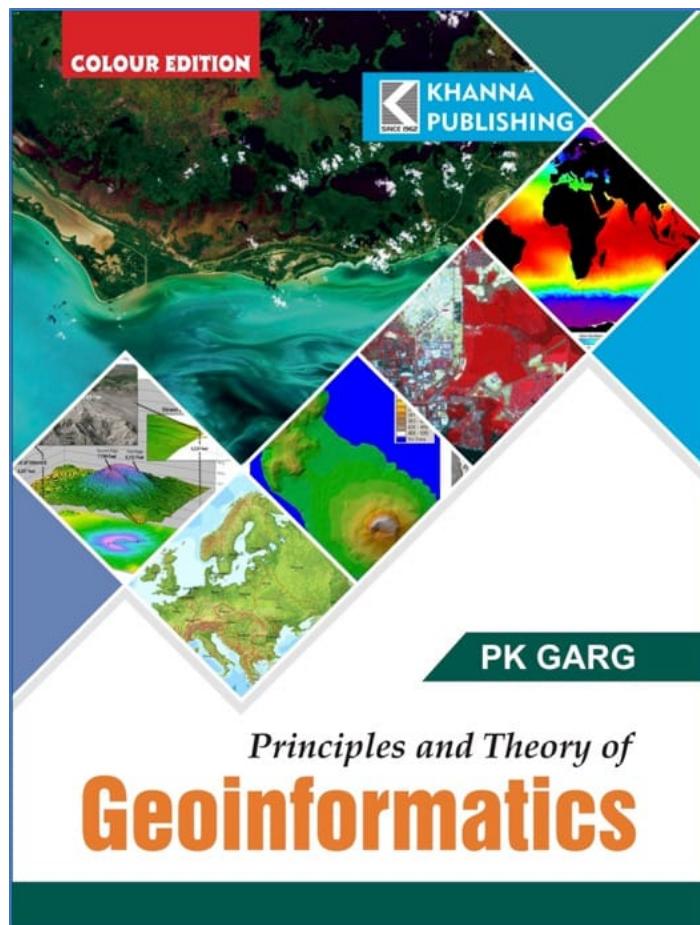
**R.S. Salaria Prof. R.S. Salaria** is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. 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.



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## Principles and Theory of Geoinformatics

<b>Author :</b>	P.K. Garg
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## Product Description

Geoinformatics combines photogrammetry and remote sensing, image processing as well as other digital spatial data collection methods like GPS, field measurements, digitizing and scanning of maps, spatial data analysis algorithms and geographical data management, and visualization. It is one of the important tools that can help us to map and monitor the changes in the environment and on Earth, Geoinformatics, being multi-disciplinary in nature, is a fast growing area to solve real world problems by bringing together technologies and tools required for acquisition, exploration, visualization, analysis and integration of various spatial data. The main key feature of this book is that it concisely covers all the major topics of geoinformatics; Photogrammetry, Remote Sensing, GPS and GIS, so that UG & PG students and researchers can understand the theory of land data collection & mapping, and subsequently the analysis from these maps. The structure and character of spatial and non-spatial datasets are also described. The book covers basic geoinformatics tools and techniques which encompass a wide range of equipment, images and software, such as laser based devices, LiDAR, UAV/Drone, Aerial and terrestrial photographs, optical, Thermal, microwave and hyperspectral images, GPS, and GIS. The utility and application areas of these data collection techniques are presented in a simple language. This book will be extremely useful to students to understand the principles and theory of Geoinformatics that are crucial for several applications on the Earth surface.

## Table of Contents

**CHAPTER 1: GEOINFORMATICS. CHAPTER 2: PHOTOGRAMMETRY. CHAPTER 3: REMOTE SENSING. CHAPTER 4: GLOBAL POSITIONING SYSTEMS. CHAPTER 5: GEOGRAPHIC INFORMATION SYSTEMS.**

## Author

### P.K. Garg

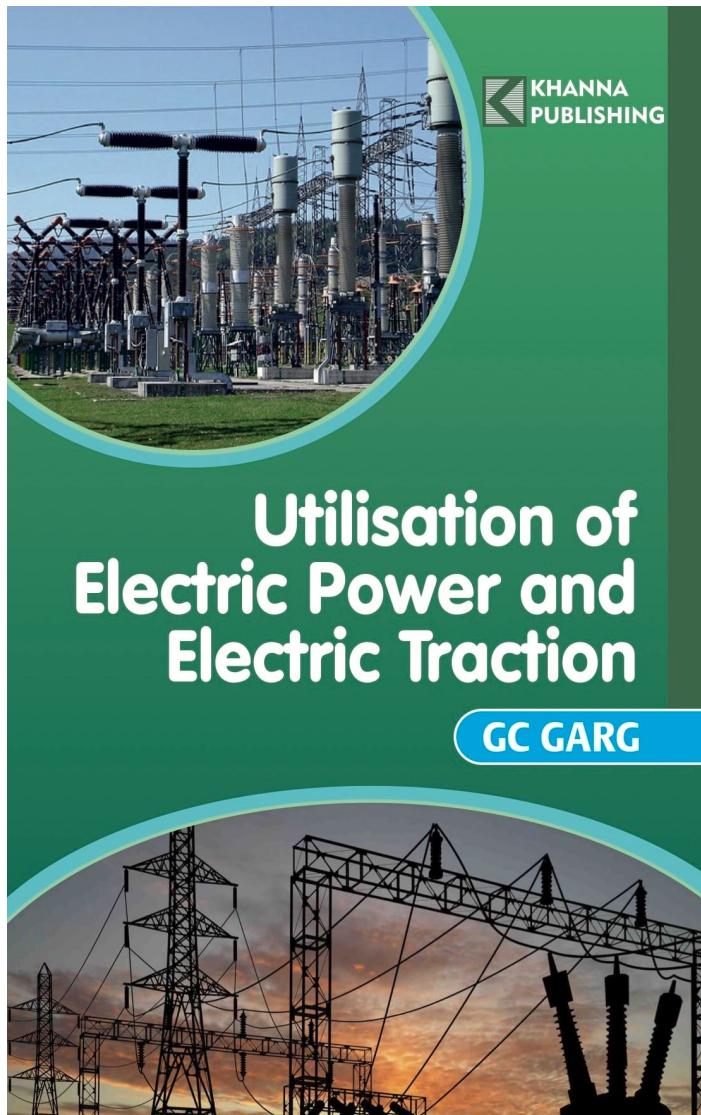
**Dr. P.K. Garg** is a professor in Civil Engineering Department in IIT Roorkee and former Vice-Chancellor of Uttarakhand Technical University, Dehradun (UK).



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## Utilisation of Electric Power and Electric Traction

<b>Author :</b>	G.C. Garg
<b>ISBN 13 :</b>	978-93-86173-35-5
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### Product Description

A Text Book of Utilization of Electric Power and Electric Traction which is prepared on the basis of Engineering scientific study covering the syllabi of all the universities running electrical engineering courses, Engineering colleges and Technical Education Boards of all the states in India. This book is also meets the requirement of Foreign Universities where this subject is taught.



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**Chapter 1:** Industrial Utilization. **Chapter 2:** Control of Industrial Motors. **Chapter 3:** Electric Heating. **Chapter 4:** Electric Welding. **Chapter 5:** Illumination. **Chapter 6:** Electrolytic Process. **Chapter 7:** Refrigeration and Air Conditioning. **Chapter 8:** Electric Traction. **Chapter 9:** Economic Aspects. **Chapter 10:** Objective Type Questions of Industrial Utilization.

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## **Author**

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### **G.C. Garg**

Prof. G.C. Garg retired as registrar from the Technical Education Department Haryana, Chandigarh. Before that he was Head of Deptt. In Electrical Engineering at Govt. Institution of Engineering Ambala City, Haryana. After Graduation in Electrical Engineering he has gone 2½ years regular advance course in Electrical Engineering with specialization of Electrical Machines in T.T.T.I. Chandigarh in collaboration with Netherlands Govt. under the guidance of Prof. B. Mone who was authority in Electrical Machines and Electrical Power. He has also undergone one and a half year Industrial/Power Projects/Field and Transmission & Distribution Power Stations. He is fellow of the Institution of Engineers (India).

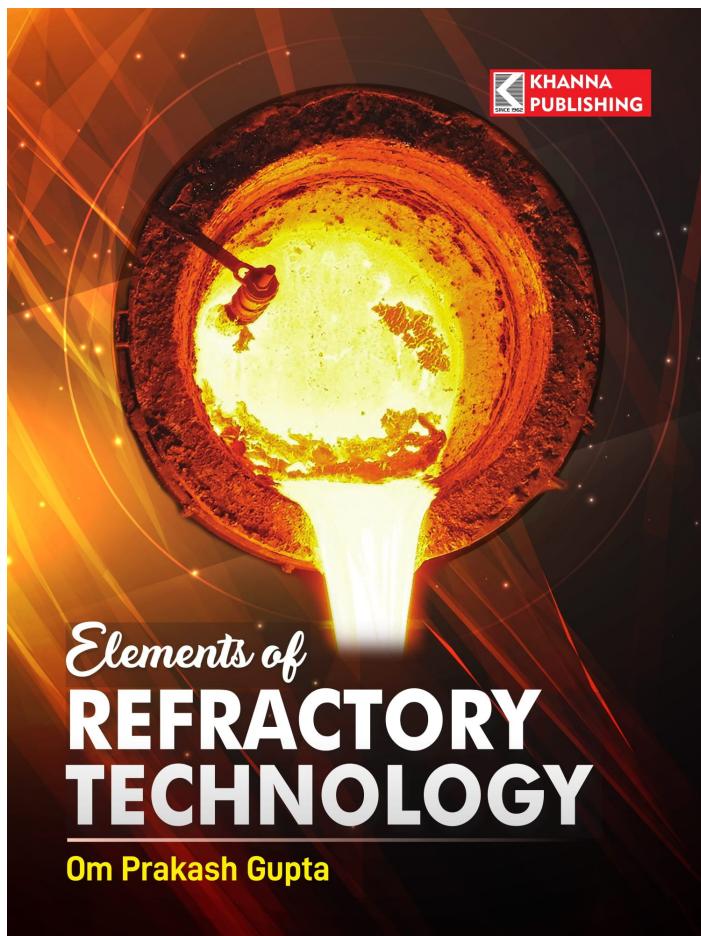
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## Elements of Refractory Technology

<b>Author :</b>	O.P. Gupta
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<b>Categories :</b>	<a href="#">Chemical Engineering</a>
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### Product Description

This book describes the essential features of refractory technology and is useful for degree & diploma courses in engineering. AMIE, AMIIM and IICHE examinations. Short question & answers and multiple choice question & answers drawn from the examination paper of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for the students.



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**Chapter 1:** Introduction to Refractories.

**Chapter 2:** Manufacture, Properties and Applications of Important Refractories.

**Chapter 3:** Refractories used in Various Furnaces/Industries.

**Chapter 4:** Properties Testing of Refractory.

**Chapter 5:** Phase Equilibrium in Refractory materials.

**Chapter-6:** Insulating Refractories / Ceramic fibres.

**Chapter-7:** Special Refractories.

**Chapter-8:** Refractory - Cements/Mortars, Castables Ramming Masses.

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**Appendix-B:** Short Question & Answers on Refractory Technology.

**Appendix-C:** Multichoice Questions & Answer on 'Refractory Technology'.

**Appendix-D:** Technical Data on Refractories.

**Appendix-E:** References/Bibliography/Further Reading.

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## Author

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**Om Prakash Gupta** is basically being a chemical engineer, he has a practicing experience of efficient Energy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T Kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited England and France on a study tour sponsored by United Nations Development Program (UNDP) to study the scope of energy conservation in steel plants in 1987.

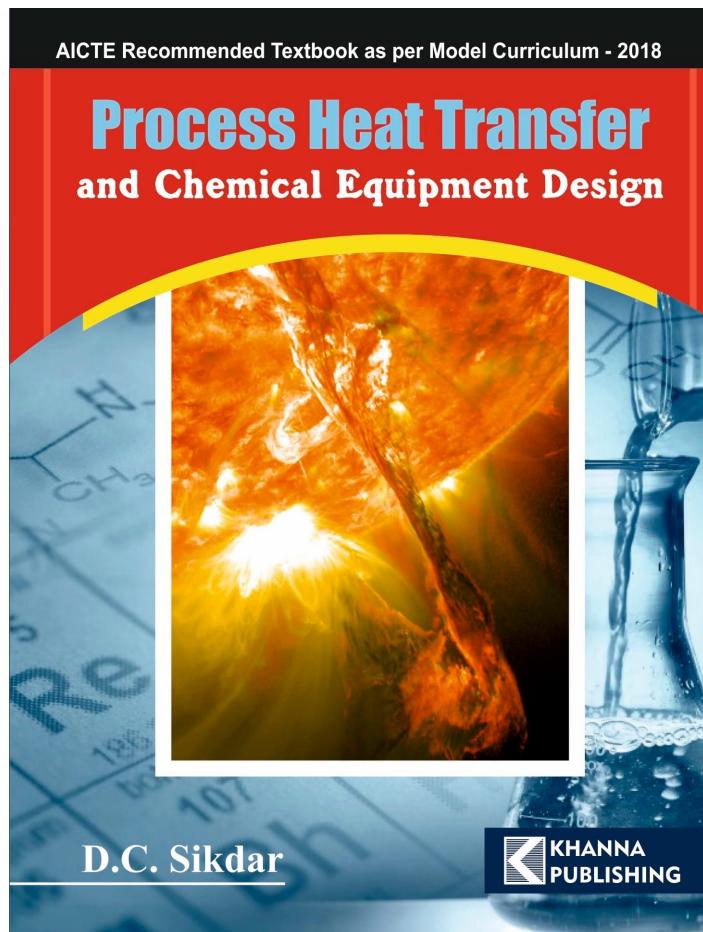
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## Process Heat Transfer and Chemical Equipment Design

<b>Author :</b>	D.C. Sikdar
<b>ISBN 13 :</b>	978-93-86173-61-4
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## Product Description

This book is students friendly. It also demonstrates how to solve the industry related problems that crop up in Chemical Engineering Practice. The chapters are organized in a simple way that enables the students to acquire an in depth understanding of the subject. The emphasis is given to the Basic concept of heat transfer, conduction, Insulations, Convection, Extended surface- Fins, Dimensionless group and Dimensional analysis, Heat transfer analogy, Heat transfer with phase change, Heat transfer equipment, Design of heat transfer equipment and Radiation, all coming under the realm of Process Heat Transfer. Apart from the numerous illustrations, the book contains review questions, exercises and aptitude test in Chemical Engineering which bridge the gap between theoretical learning and practical implementation. All numerical problems are solved in a systematic manner to reinforce the understanding of the concepts. This book is primarily intended as a text book for the under graduate students of Chemical Engineering. It will also be useful for other allied branches such as, Aeronautical Engineering, Mechanical Engineering, Petrochemical, Polymer Science and Engineering, Bio-technology as well as Diploma in Chemical Engineering. Key Features: \* Theoretical concept is explained with examples. \*Numerical problems are solved in systematic manner to reinforce the understanding of the concepts. \*Included a large number of diagrams illustrating industrial physical problems. \*Only essential theory is discussed under each topic. \* Stepwise procedure is given for solving problems under the topic of Chemical Equipment Design.

## Table of Contents

**Chapter 1:** Basic Concept at Heat Transfer. **Chapter 2:** Conduction. **Chapter 3:** Insulations. **Chapter 4:** Convection. **Chapter 5:** Extended Surface- Fins. **Chapter 6:** Dimensionless Group and Dimensional Analysis. **Chapter 7:** Heat Transfer Analogy. **Chapter 8:** Heat Transfer with Phase Change. **Chapter 9:** Heat Transfer Equipment. **Chapter 10:** Design of Heat Transfer Equipment. **Chapter 11:** Radiation. **Answer to Exercise Problems Aptitude Test in Heat Transfer Index**

## Author

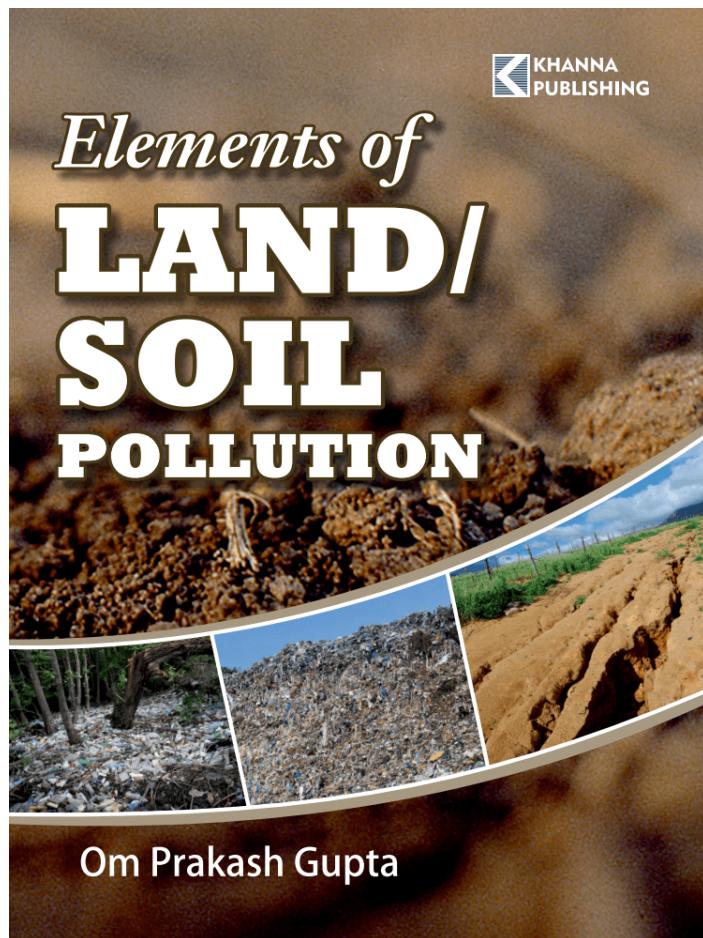
**D. C. Sikdar** (Ph.D.) is an associate professor, Department of Chemical Engineering, Dayananda Sagar College of Engineering, Bangalore, with more than two and half decades of teaching experience. Prof. Sikdar has published many papers in national and international journals of repute. he has received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



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## Elements of Land/Soil Pollution

<b>Author :</b>	O.P. Gupta
<b>ISBN 13 :</b>	978-93-82609-73-5
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## Product Description

This book contains detailed description of sources, effects and control of soil pollution spanning over five chapters. Besides, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. Last chapter contains glossary of terms related to soil pollution. The book will be useful for degree & diploma curriculum of various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of metals (AMIIM), Indian Institute of Chemical Engineers (AMIIChE), etc.

### **SALIENT FEATURES OF THE BOOK:**

Subject matter has been presented in simple, lucid & understand language. Cover all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short questions & answers and multiple choice questions & answers drawn from the examinations given at the end of the book enhances its utility for the students. Up to date statistics and glossary of terms related to the subject have been included.

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**Chapter 1:** All about Soil—Its Formation, Types, Components & Properties.

**Chapter 2:** Introduction to Soil Pollution.

**Chapter 3:** Causes, Types, & Sources of Soil Pollution.

**Chapter 4:** Effects of Land/Soil Pollution.

**Chapter 5:** Prevention & Control of Land/Soil Pollution.

**Chapter 6:** Short Questions & Answers on Soil Pollution.

**Chapter 7:** Multiple Choice Questions & Answers.

**Chapter 8:** Glossary of Terms Related to Soil Pollution.



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## Author

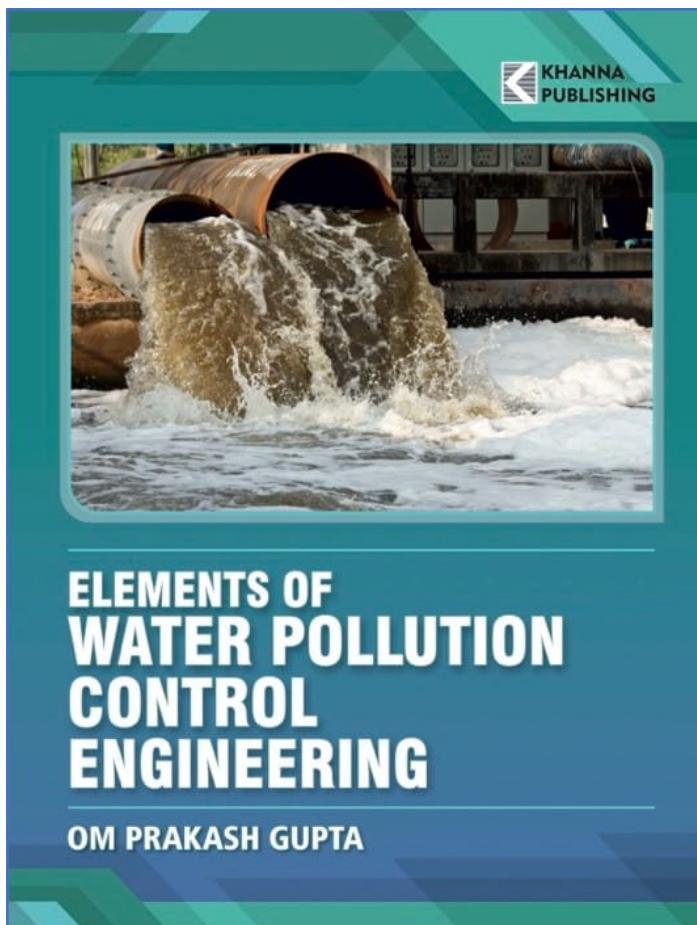
**Om Prakash Gupta** is basically being a chemical engineer, he has a practicing experience of efficient Energy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T Kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited England and France on a study tour sponsored by United Nations Development Program (UNDP) to study the scope of energy conservation in steel plants in 1987.



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## Elements of Water Pollution Control Engineering

<b>Author :</b>	O.P. Gupta
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## Product Description

The book contains twelve chapters followed by appendices (meant for specific target reader groups) pertaining to complete domain of water pollution control engineering. Beside, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. the book will be useful for degree & diploma curriculum or various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of Metals (AMIIM), Indian Institute of Chemical Engineers (AMIIICHE), Institute of Chemist etc. It will also be equally useful for M.Sc. & B.Sc. students. SALIENT FEATURES OF THE BOOK: Subject matter has been presented in simple, lucid & easy to understand language. Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short question & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for students. Up to date statistics and glossary of terms related to the subject have been included.

## Table of Contents

**Chapter 1:** Introduction to Water Pollution. **Chapter 2:** Characteristics and Properties of Water. **Chapter 3:** Purification of Water/Water Treatment. **Chapter 4:** Sources, Effects and Control of Water Pollution. **Chapter 5:** Waste Water/Sewage Treatment. **Chapter 6:** Industrial Waste Water and Its Treatment. **Chapter 7:** Water Quality and Standards. **Chapter 8:** Water Related Disease. **Chapter 9:** Thermal Pollution of Water. **Chapter 10:** Water Management. **Chapter 11:** Water Pollution Control Acts & Rules. **APPENDIX - A Appendix- B**

## Author

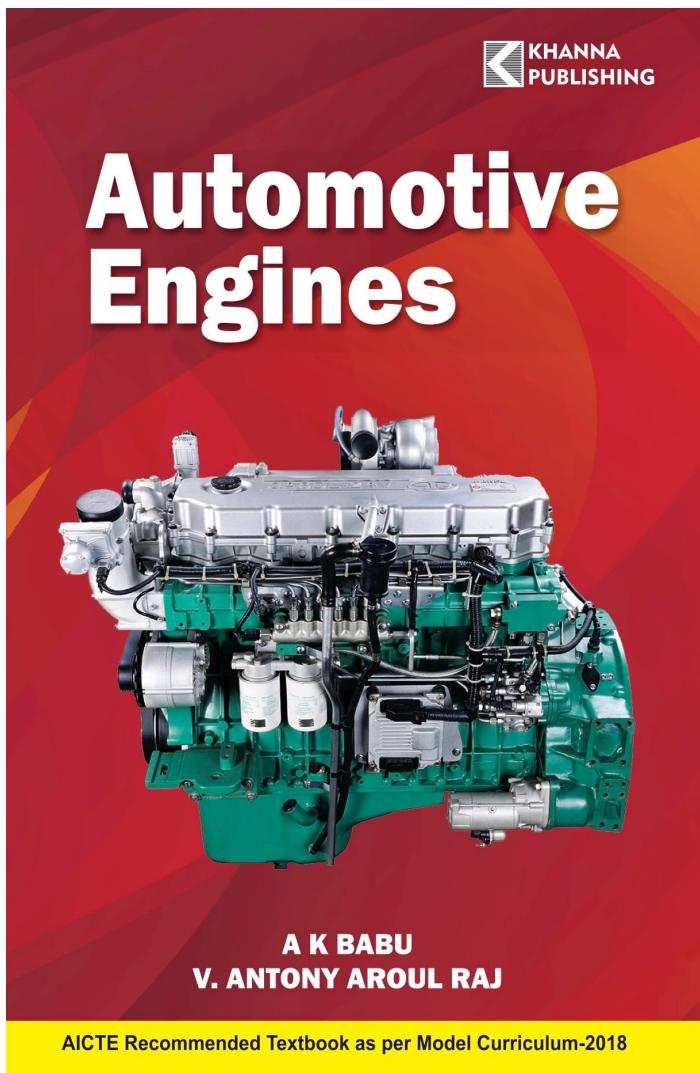
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## Automotive Engines

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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 described 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 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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### Review Question

## Authors

**A.K. BABU** is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K. BABU, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K. BABU has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.

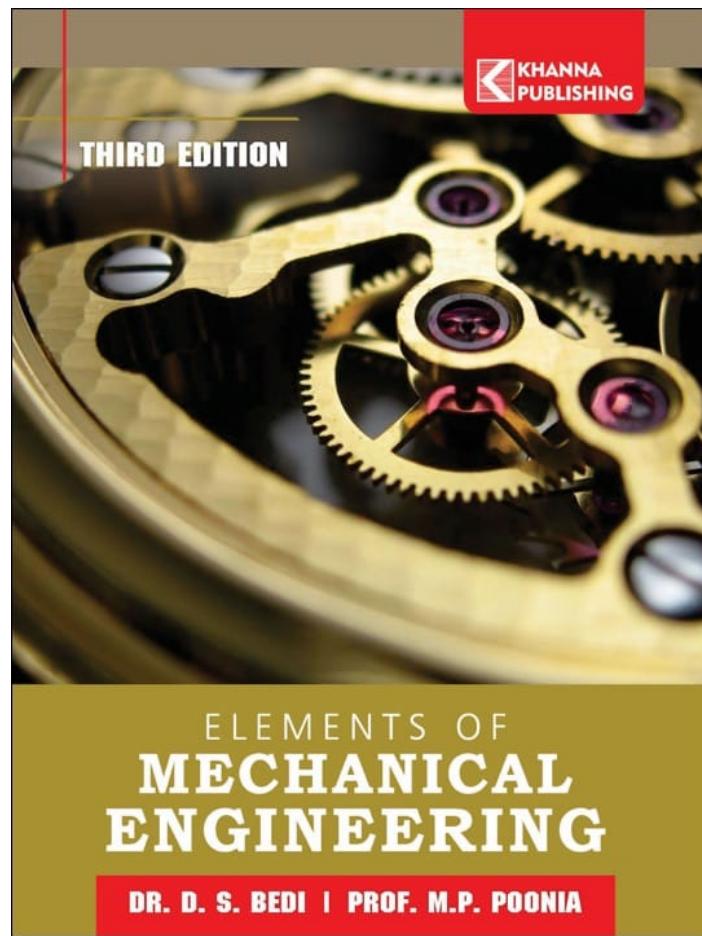
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## Elements of Mechanical Engineering

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<b>Country Origin :</b>	India

### Product Description

The subject 'Elements of Mechanical Engineering' embraces 3 different fields of Mechanical Engineering, namely Thermodynamics, Strength of Materials and Theory of Machines. The book is written in simple and easy to understand language. The authors have ingeniously brought in situations encountered by common man in his day-to-day life, so as to generate interest in the reader for the subject which otherwise leaves him high and dry. In addition to this, every topic is supplemented with large no. of solved examples (more than 300 examples) which deals with every possible situation. At the end of each chapter, review questions have been added so that the students are made conversant with the type of compulsory questions they have to face in university exam. These are also followed by large no. of model problems.



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**Chapter 1:** Basic Concepts of Thermodynamics. **Chapter 2:** Properties of Pure Substances. **Chapter 3:** First Law of Thermodynamic-Closed Systems. **Chapter 4:** First Law of Thermodynamics Applied to Flow Processes. **Chapter 5:** Second Law of Thermodynamics. **Chapter 6:** Entropy. **Chapter 7:** Gas Power Cycles. **Chapter 8:** Internal Combustion Engines. **Chapter 9:** Mechanisms and Machines. **Chapter 10:** Lifting Machines. **Chapter 11:** Concept of Mechanical Behavior of Engineering Materials. **Chapter 12:** Relation Between Elastic Constants. **Chapter 13:** Engineering Materials. **Chapter 14:** Centroid, Centre of Gravity, Second Movement of Area and Mass Movement of Inertia.

## Index

## Author

**Dr. D.S. Bedi** is one of the distinguished writers in India. He possesses a very excellent academic background. He had held various high positions viz. formerly Professor Emeritus at Department of Mechanical Engineering, Institute of Engineering and Technology (Punjab); Professor & Head, Dept. of Mechanical Engineering, Thapar Institute of Engineering & Technology (Punjab); Visiting Professor at Wayne State University, Detroit, MI (USA); Principal, Baba Banda Singh Bahadur Engineering College, (Punjab); Advisor-cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab. **Dr. M.P. Poonia** is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata). Dr. M. P. Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.



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