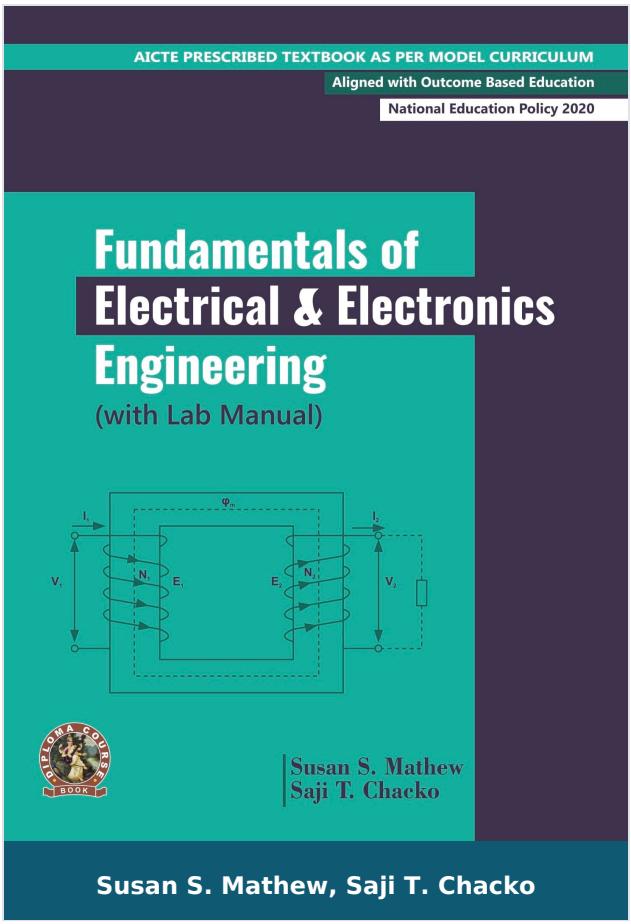

Fundamentals of Electrical and Electronics Engineering (with Lab Manual)

Author :	Susan S. Mathew, Saji T. Chacko
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Product Description

“Fundamentals of Electrical & Electronics Engineering” is a compulsory 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.

Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written is easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided.

Some salient features of the book:

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

2. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity.

3. Book provides lots of vital facts, concepts, principles and other interesting information.

4. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided.

5. Student and teacher centric course materials included in book in balanced manner.

l6. Figures, tables, equations and comparative charts are inserted to improve clarity of the topics.

7. Objective questions and subjective questions are given for practices of students at the end of each unit.

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

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Author

Susan S. Mathew

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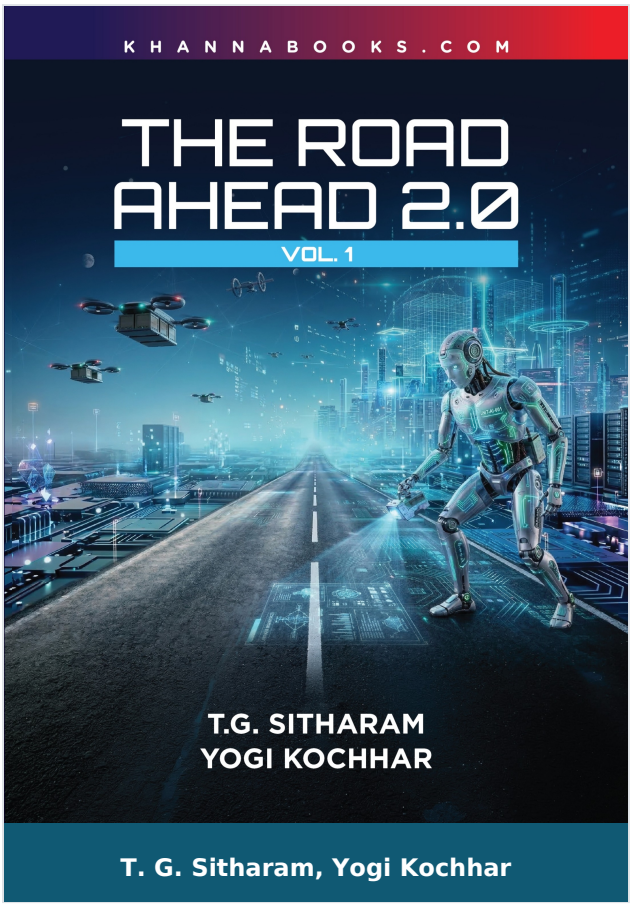

The Road Ahead 2.0 Volume-1 (Colour Edition)

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Product Description

The world stands at the edge of monumental change. Like the dinosaurs, we too tread the path of history, unaware of what's next. AI is here, and it's poised to transform how we live, work, and play.

This book draws inspiration from Bill Gates' The Road Ahead, Marconi's pioneering spirit, and Santiago's journey in Paulo Coelho's The Alchemist. As you explore the Preface and beyond, you'll find sparks of imagination—just as Gates did decades ago—igniting a revolution.

The book distills global activity through the lens of AI across 70+ concise chapters. Santiago embarks on a metaphorical quest through this "crystal ball," uncovering how AI will shape the future. Guided by engaging stories and analogies, you'll navigate a forest of ideas, including Santiago's imagined meeting with Harry Potter.

We've kept the chapters paper thin, allowing you to "eavesdrop" on conversations exploring whether AI is a bane or a boon. Along the way, we challenge you to reflect on critical truths: Practice precedes policy. Policies codify practices, but AI's rapid pace will always outstrip them. Like football played before rule books, generative AI will sprint light-years ahead of regulation.

Think of it as a modern Tom and Jerry—the policy-maker cat chasing an ever-moving laser pointer.

This journey is a call to action: adapt or adopt, for the times demand it. Otherwise, like footprints in the sand, we risk fading into obscurity.

For those seeking change, this book offers a different sauce. It's a salute to imagination, catalyzing transformation akin to Who Moved My Cheese?—an ode to Dr. Spencer Johnson. We carry him in a parody inside.

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Clue: Adapt, adopt, and lead. The AI revolution is here to stay.

Endorsements

“This illuminates AI’s unparalleled impact towards making a VIKSIT BHARAT aligning with our Prime Minister’s visionary call for AI adoption with care and sensitivity.”— Prof. Ajay K Sood, Principal Scientific Advisor, Govt of India.

“This book is an almanac that brings a purposeful exactitude to planet, people, and profit in that order where AI becomes a partner in achieving our shared goals.”— Prof. Phoebe Koundouri, Chair: Climate Change, UN SDSN.

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- Education Management
- Education Streams

Author

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T. G. Sitharam is a civil engineer, professor at IISc Bangalore, former director at IIT Guwahati. Currently, he is serving as Chairman of the All India Council for Technical Education, (AICTE) from 1 December 2002 onwards. He is known for his works in the fields of rock mechanics, rock engineering geotechnical earthquake engineering. He is an elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

Yogi Kochhar

Yogi Kochhar : - Yogi, an AI FUTURIST, works across sectors in US, UK and India to operationalize AI adoption at scale: his ability to simplify complex ideas and translate them into implementable constructs gives this book its unique clarity and force. Author, Poet Golfer, Trekker. Their collaboration results in a seminal work that charts not just

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what AI can do, but what it must do; strengthen institutions, empower citizens, and prepare societies for an era of profound transformation.

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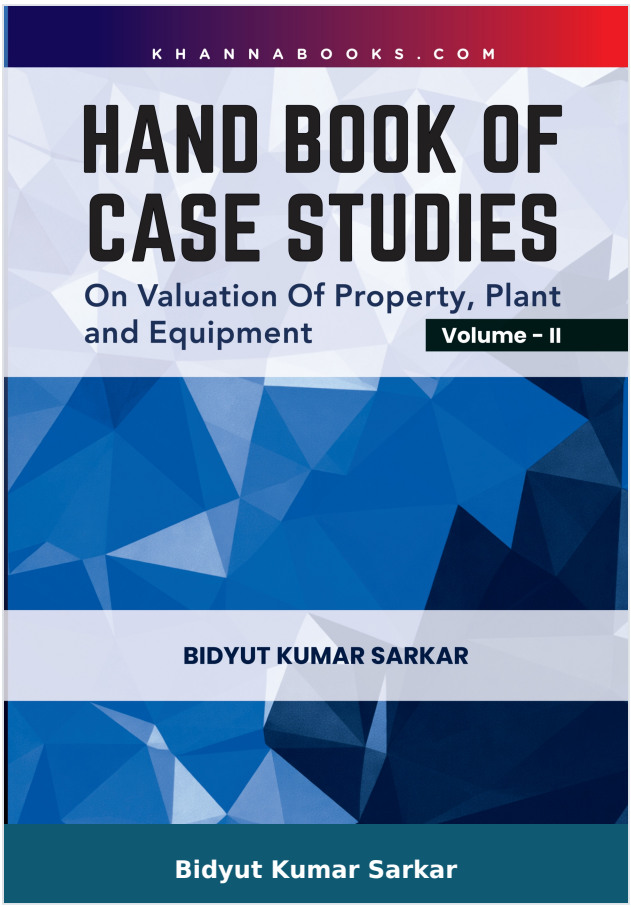

Handbook Of Case Studies (On Valuation of Property, Plant and Equipment), Volume-2

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Product Description

Handbook Of Case Studies (On Valuation of Property, Plant and Equipment), Volume-II

“Hand book of Case Studies: On Valuation of Property, and Equipment (Volume – II)” offers a comprehensive and practical guide for students and professionals aiming to develop expertise in valuation report writing within the field of PPE. Drawing on real-world examples and detailed case studies, the book effectively bridges the gap between valuation theory and practical application, making it an essential resource for practicing valuers. Valuation is a critical skill across many industries, yet the practical aspects of report writing are often underrepresented in traditional education.

This book addresses that gap by providing structured guidance on preparing accurate and reliable valuation reports. It covers key areas such as data collection, analysis of market conditions, valuation methodologies, and adherence to professional standards, with a strong focus on mortgage valuation scenarios. Through its case studies, the book demonstrates how professional judgement, supported by technical knowledge, leads to objective and defensible valuations.

The book also emphasizes the importance of understanding the context of valuation, including the expectations of investors, property owners, and businesses, as well as evolving market conditions. It highlights the role of the valuer as an intermediary who connects clients with market realities and provides insights that support informed financial decision-making. Written in a clear and accessible style, Hand book of Case studies: On Valuation of property, Plant, and Equipment serves both as professional seeking to enhance their skills in property and asset valuation.

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- Samden Vehicles Pvt. Ltd., Babesa Expressway, Thimphu, Bhutan
- Revaluation of Property, Plant & Equipment:
- State Trading Corporation of Bhutan Ltd.

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Bidyut Kumar Sarkar , is a former Scientific Offers/Engineering of the Department of Atomic Energy, Govt of India, Mumbai. He is a Chartered Engineer & a Fellow of the Institution of Engineering (India), Institution of Valuers (India), a Member of American Society of Appraisers (USA), A Regd Valuer under section 34 AB of the income tax & Wealth Tax Act 1957, Govt of India. He has been serving last 40 years as a consultant to Govt/Semi Govt/PSU/Corporate clients Spread over India, Bhutan, Nepal, and beyond

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which enables him to have a large tapestry of In-depth experience of valuation of tangible & intangible assets involving diverse industries viz, large and medium Hydropower plants, steel plants, steel plants, ferro Silicon and Ferro alloys plants, Ferro Silicon Magnesium plants, Mines & mineral industries. Cement, Chemical & Other Continuous Process Industries, Distilleries, Cigarette manufacturing and Readymade textile plants, wood Based Industries, Rigid PVC Pipes & Films manufacturing plants, food & Milk Processing industries, Real Properties, Five-star hotel (le' Meridien, Thimphu), Tea processing plants & plantation, large automatic particle board and gyp board plants, large residential complexes etc. and boundless creativity by navigating vibrant terrain and cultural nuances of people and places, real and surreal. He did publish a paper on Nuclear Instrumentation & process Control at a National Seminar Organized by BARC, Trombay, Mumbai and a number of books of poems in English.

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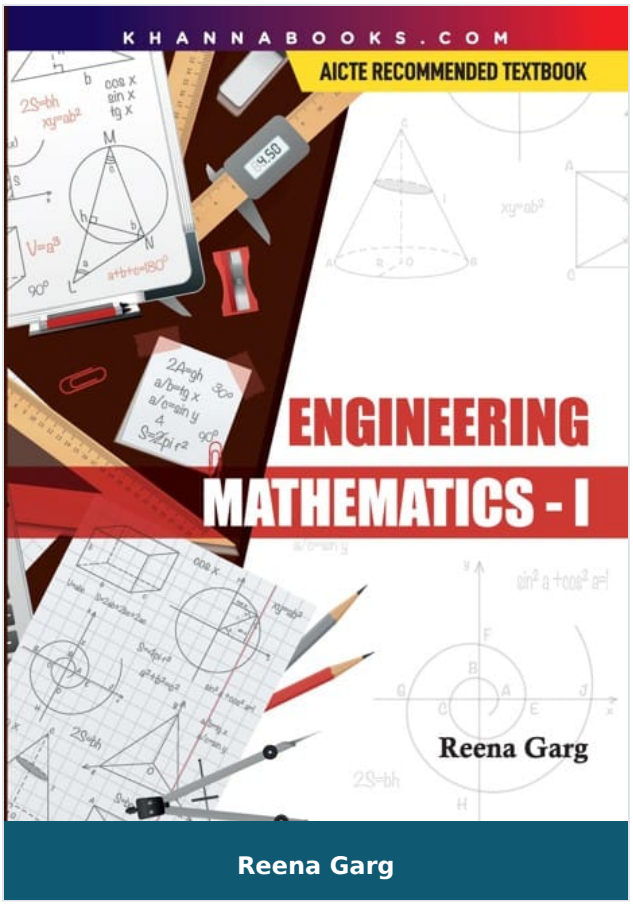

Reena Garg

Engineering Mathematics-I

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Product Description

This book is designed to meet the complete requirements of Engineering Mathematics course of undergraduate syllabus, The book consists of seven chapters viz. infinite Series, Matrices, Expansion of Functions, Asymptotes, Curvature, Partial Differentiation, Multiple Integrals, Each chapter is treated in treated in systematic, logical and lucid manner, All these chapters are independent units in themselves. The students can go through the book picking up any chapter at any given times, without referring to other chapters, Hints, where ever necessary and answers of the questions in the exercises are given at the end of each exercise, Most of the questions-solved as well as unsolved-have been picked up from the examination papers of different universities and professional examinations, There are fully worked out examples and graded exercises (with answers) aimed at preparing the student for examination as well as higher studies, The authors have illustrated various methods to solve particular problems.

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Author

Reena Garg

Dr. Reena Garg , M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers.She has published more than 10 research papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.

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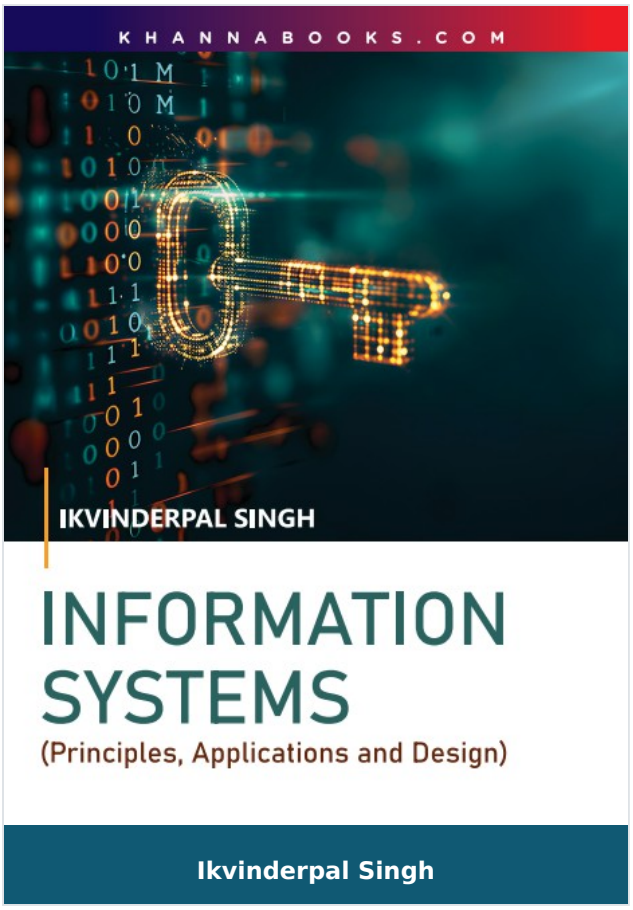

Information Systems

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Product Description

This book discusses all the major areas in information systems with contemporary issues and their effects on business and organization. The main focus in on practical orientation and application of information systems and the emphasis in on real business scenarios. Each chapter provides spotlights on organization, technology or management related to the topics discussed. The book provides a board treatment of the core topics of information systems. Transaction processing systems, Knowledge management systems, Office automation systems, Management Information Systems, (MIS), Decision support systems, Accounting information systems, Inventory control systems, Marketing systems, and also the ethical and social issues involved in information systems.

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- Information Systems
- Technologies For Information Systems
- Transaction Processing Systems
- Knowledge Work And Office Automation Systems
- Management Information Systems
- Decision Support Systems
- Executive Support Systems
- Case Study Of Information Systems

Author

Ikvinderpal Singh

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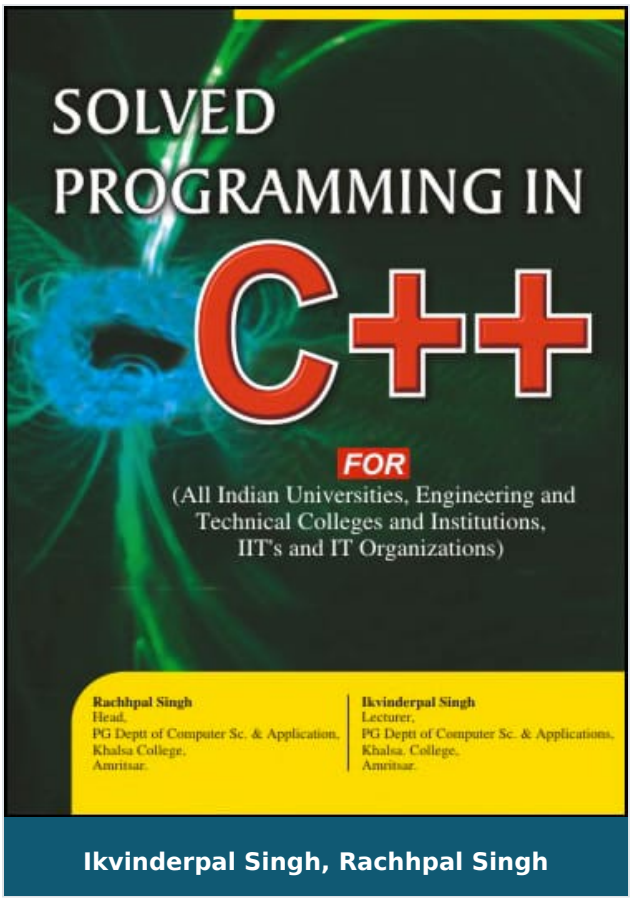

Ikvinderpal Singh, Rachhpal Singh

Solved Programming in C++

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Product Description

This book blends concepts with real practical applications. Simple and lucid style trains the reader not only in developing application programs but also familiarizes with system level programming.

Salient Features:

1.Contains about 2200 solved simple as well as complex programming problems. Include real life solved examples.

2. Contains all data types programming descriptions like int array, bool, binary bit, float read, register variables etc.

3. It covers of all functions of cin and cout, cin manipulator, cout boolalpha, cout custom, cout scientific etc.

4. Include Classes , objectives, constructor and destructor with simple programming examples.

5. Each operator is overloaded using simple programs like overloaded unary binary operator, enum, square bracket, custom inserter etc.

6. Detail study of various types of inheritance and also explain polymorphism concept.

7. Each function file of I/O is described using simple programming, functions like binary file, file pointer, istream, ostream, iostream and file IO exception etc.

8. Explore the functions like inline, static, and friend.

9. Some extra features like templates, exception handling, genric programming described using suitable programming examples.

10. Contains implementations of data structures liked list, stack, queue etc.

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- Templates
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Author

Ikvinderpal Singh

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Rachhpal Singh

Rachhpal Singh is head of P.G. Dept. Computer Science & Applications, Khalsa College, Amritsar which is a premier institute in North India. He obtained his MCA from thapar Institute of Engineering and Technology, patiala. He has over fifteen years of teaching experience to teach post graduate classes. He is an international author of the world level and his other areas of interest include software engineering, parallel processing system level programming.

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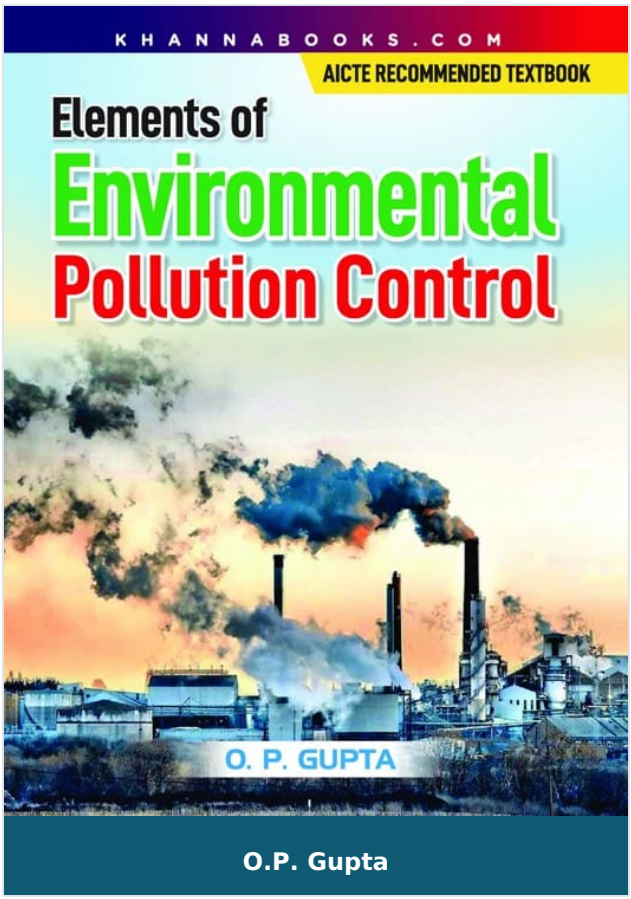

Elements of Environmental Pollution Control

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Product Description

This book will cater to the needs of students who want to pursue a Diploma in Engineering, Degree in Engineering (B. Tech/B.E., B.Sc.(Eng.) students. Postgraduate degree in Engineering (M. Tech, M.E.) students. AMIE (Associate membership of Indian Institute of Metals) examination. AMIICHE (Associate Membership of Indian Institute of Chemical Engineers) examination. AIC (Associateship of Institute of Chemist) examination. Practicing engineers in the field of environmental engineering. Environmental engineering professionals.

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- Introduction of Air Pollution
- Effects of Environmental Pollution on Plants/Trees/Vegetation

Author

O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy 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 Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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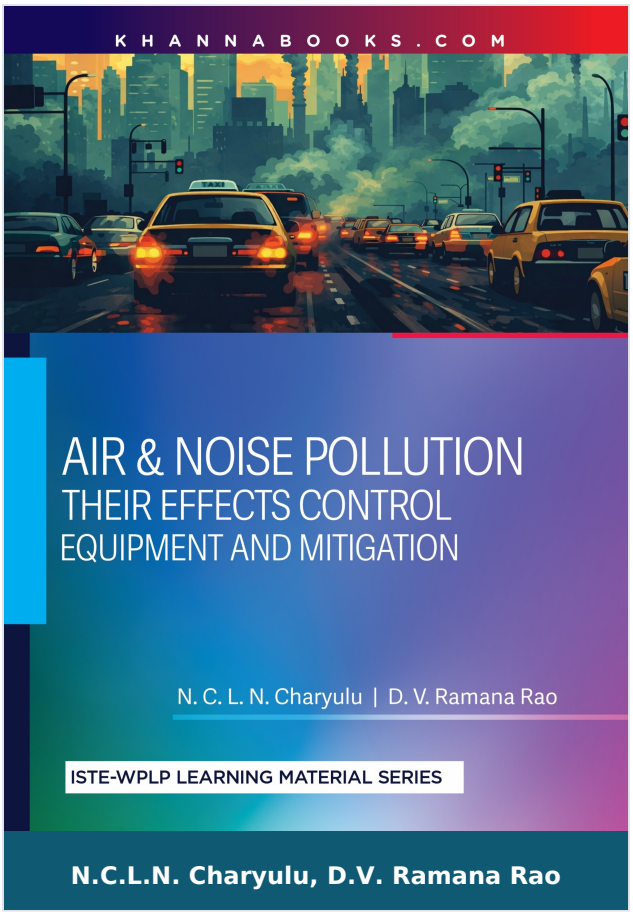

Air & Noise Pollution Their Effects Control Equipment and Mitigation

Author :	N.C.L.N. Charyulu, D.V. Ramana Rao
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Product Description

Air & Noise Pollution Their Effects Control Equipment and Mitigation

Industrial activities especially after the Industrial revolution all over the world have led to environmental problem by excessive consumption of resources and release of deleterious effluents, emissions and residues. Among the various aspects of pollutants, air, water noice are inherent characteristics, in contributing pollution in process industries. Air pollution in the form of particulates and gases are emanated from chemical and other process industries. Biological material from agricultural and other natural Phenomena are introduced or inserted into the atmospheric air.

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- Sources Harmful Effects and Mitigation of Air Pollutants
- Equipment for Air Pollution Control - Design, Operation and Maintenance
- Base Line Date, Air Monitoring Devices and GIS
- Noise Pollution Its Sources and Standards
- Noise Abatement Measures
- Nanoparticle Emissions and Protective Controls
- Emerging Technologies for Particulate and Gaseous Emissions

Author

N.C.L.N. Charyulu

N.C.L.N. CHARYULU obtained B.Tech. (Chem Engg) from Andhra University in 1963 M. Tech. (Chem. Engg) with specialization in Chemical Plant Design, from IT Kharagpur, in 1967 (Technical Teacher Trainee) and Ph.D. (Chem Engg) from I.I.Sc., in 1977. Joined Karnataka Regional Engineering College, KREC Surathkal (presently renamed as National Institute of Technology Surathkal) as lecturer in 1967. Served in different capacities as Asst. Prof. Professor, Head of Chemical Engineering Department and Dean Students Affairs. Taken voluntary retirement in March, 2001 and joined Chaitanya Bharathi

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Institute of Technology (CBIT). Served as Prof and Head Chem Engg Dept., CBIT bill May, 2010. Total teaching experience of 46 Y (1954- 2010) He was awarded National Biotechnology Associate for One Year (1988-89) during which he was a visiting professor at Fermentation Technology and Bioengineering CFTRI, Mysore, in the Biotechnology associate ship programme. May-Nov 1990. he spent 3 months at NCSU, Raleigh, N.C., USA, another 3 months at UM.C.. USA, and Indian Secondment Visiting Professorship for one semester 1996-97 at School of Environment Resource Development, Asian Institute of Technology. Bangkok Thailand. He has Coordinated two I.S.TE. sponsored Winter Summer Schools a) Fluidization Engineering 1980 b) Bioconversion process optimization computer modeling-1989 and two refresher courses to working professionals a) Application of Chem. Eng. principles to Urea plant operators of MCF, Panambur 1993 and b) Unit operations for design, production and maintenance personnel in cement and mineral based industries October 20-25, 2008. He guided four theses for Ph.D. a) Biosynthesis of Cellulase enzyme and Modeling, 1994. b) Bioremediation of industrial and domestic effluents by microorganisms 1999. c) Studies on biodegradation of high BOD effluent by anaerobic digestion and modeling 2001. d) Study of Coagulation flocculation Process by polyelectrolytes for effective solid-liquid separation in water and wastewater treatment 2005. In addition he has guided over 20 M. Tech, theses. His areas of specialization are: Chemical plant design, Chemical reaction engineering, Enzyme synthesis, Bioremediation, Biosynthesis and Bioconversion, Simulation & Computer Modeling. Application of Science and Technology to Rural areas for utilization of Agro wastes, Environmental Impact Assessment, Environment Management Planning. He published about 15 technical papers in International and national journals and seminars/symposia. He delivered number of invited lectures. He was a chairman and/ or member of several academic bodies of different Universities-Mysore, Bangalore, Mangalore, Osmania, Kuvempu etc. Dr.

D.V. Ramana Rao

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Dr. D.V. Ramana Rao received his B.SC. (Hons) and M.Sc. in Chemical Technology from Andhra University and Ph.D. in Chemical Engineering from Indian Institute of Technology, Madras in 1970. He worked as a Research Associate, as part of post doctoral work at DECHEMA- Institute, Frankfurt, Germany in the field of corrosion for two years. Before joining Ph.D., he worked in Andhra University, I.I.T., Kanpur, and in the Chemical Engineering Department of National Sugar Institute as a lecturer. After from Germany, he joined as a Scientist at senior level in National Council for Cement and Building Materials (NCB), [formerly known as Cement Research Institute of India], New Delhi and retired as Joint Director, after working for 26 years. After retiring from NCB, he worked as Professor & Head of Chemical Engineering Department of BVRIT, Hyderabad and IS Sadan College of Engg and Technology. Hyderabad (present Boji Reddy College of Engineering) nearly for 2 years. At present he is the Managing partner of Institute of Particulate Technology International (IPT) from June 2004, which carries sponsored research work, training programmes for working personnel in Industry and Consultancy. He has authored 21 research papers, published in international, national journals and international seminars. He has to his credit 2 patents. He has prepared 15 technical reports of R&D work and coordinated more than 30 training programmes and 4 workshops to working personnel in cement manufacturing industries. At present as a managing partner of IPTI, he has carried out 7sponsored projects and two training programmes to working personnel in cement and pharmaceutical Industry.

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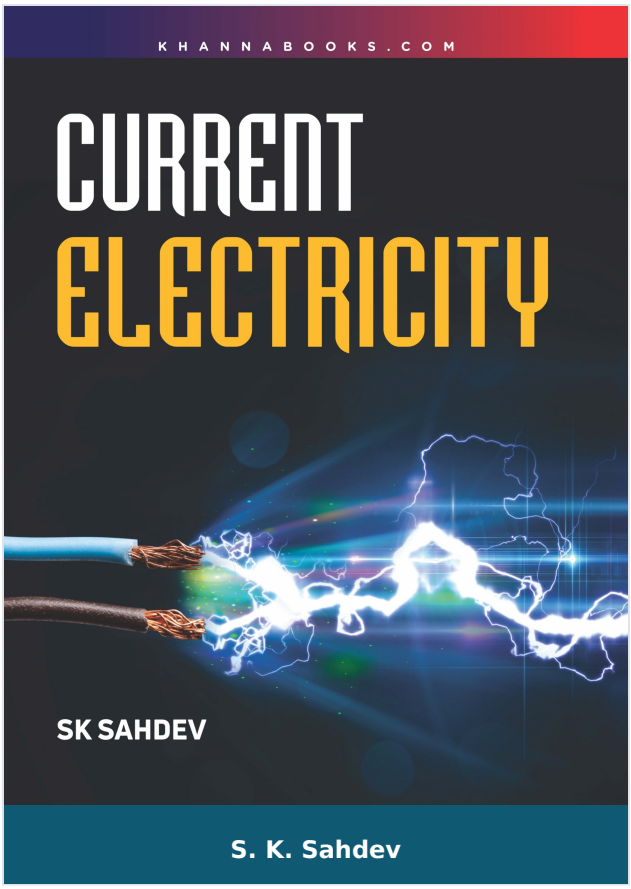

Current Electricity

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Product Description

CURRENT ELECTRICTY - SK SAHDEV

TOPICS COVERED IN THE BOOK

1. CURRENT ELECTRICITY.
2. DC CURRENT.
3. ELECTRIC CELLS.
4. LIGHTING EFFECT OF ELCTRIC CURRENT.
5. CAPACITORS.
6. ELECTROMAGNETIC EFFECTS.
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- DC Circuits.
- Electric Cells.
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- Capacitors.
- Electromagnetic Effects.
- A. C. Circuits.

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D.C. Sikdar

Mechanical Operations (Particles and Motion of Particles)

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Product Description

MECHANICAL OPERATIONS

Particles and Motion of Particles

Chapters Covered:

1. Introduction.

2. Particle Technology.

3. Size Reduction.

4. Flow of Fluid Past Immersed Bodies.

4. Motion of Particles Through Fluids.

6. Sedimentation.

7. Filtration.

8. Agitation and Mixing.

9. Sampling Storage and Conveying of Solids.

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- Agitation and Mixing.
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- Magnetic Separations.
- Jigging.

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D.C. Sikdar

D.C. Sikdar 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 (IIChE).

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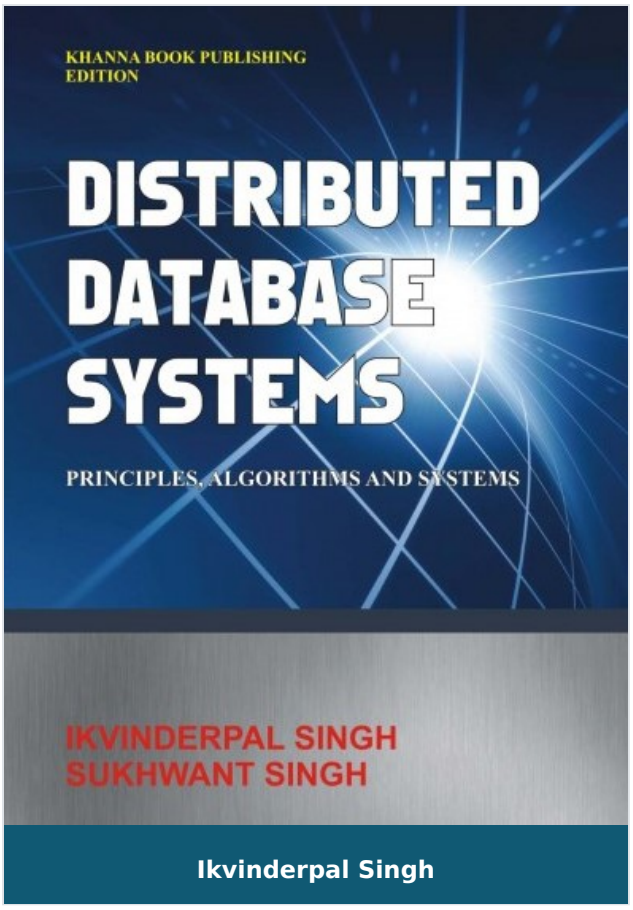

Distributed Database Systems

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Product Description

This book is meant for a wide range of readers, especially college and university students wishing to learn basic as well as advanced processes and techniques of distributed database system. It is intended for those who are professionally interested in having an up-to date view of distributed data processing, including, for example, students and teachers of course in computer science, researchers, system managers, application designers, analysts and programmers. A distributed database system is , in brief an integrated database which is built on top of a computer network rather than on a single computer. The data which constitute the database are stored at the different sites of the computer network. And the application programs which are run by the computers access data at different sites. Modern aspects of distributed database systems have been introduced from the first principles and discussed in an easy manner, so that a beginner can grasp the concepts of disturbed database, its design and architecture level, distributed query processing and optimization, distributed transaction management, distributed concurrency control and reliability, distributed deadlock management, distributed recovery and security management, etc. Each chapter contains solved example problems and exercise problems.

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- Distributed Concurrency Control
- Distributed Deadlock Management
- Distributed Recovery Management
- Distributed Database Administration

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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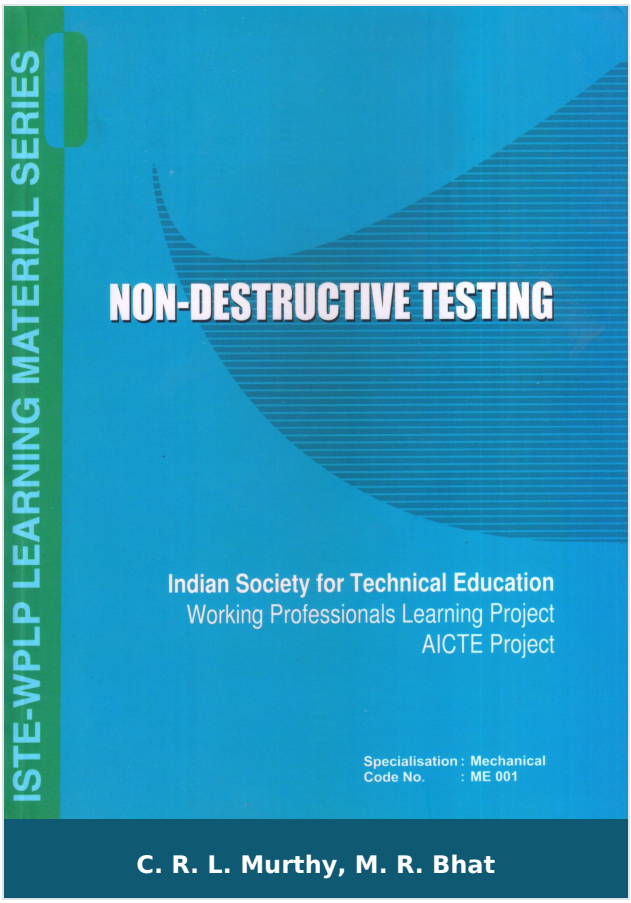

Non-Destructive Testing

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Product Description

Quality, Reliability and Structural Integrity Evaluation have been the key words for a Safe world. Non-invasive industrial diagnostics though have been in practice through intuitive methods since times immemorial, the scientific formalization of the term Nondestructive Testing (NDT) which is synonymously used with Nondestructive Evaluation (NDE) and Nondestructive Inspection (NDI) is only a few centuries old. With the evolving needs of the industry the Science and Technology of NDE has lead to tremendous Research and Development efforts and standardization of testing techniques to meet these ever changing requirements. In fact, the basic concept of the subject itself has taken a transformation and brought forth a newer title Structural Health Monitoring (SHM) and Smart Structures hand in hand with the changing concepts of design and discovery of newer materials to achieve higher levels of safety, quality and reliability via real time diagnosis and implementation of healing strategies.

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- Thermal Inspection
- SECTION IV Acoustic Methods
- Ultrasonic Testing
- Acoustic Emission Testing
- SECTION V Other techniques
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