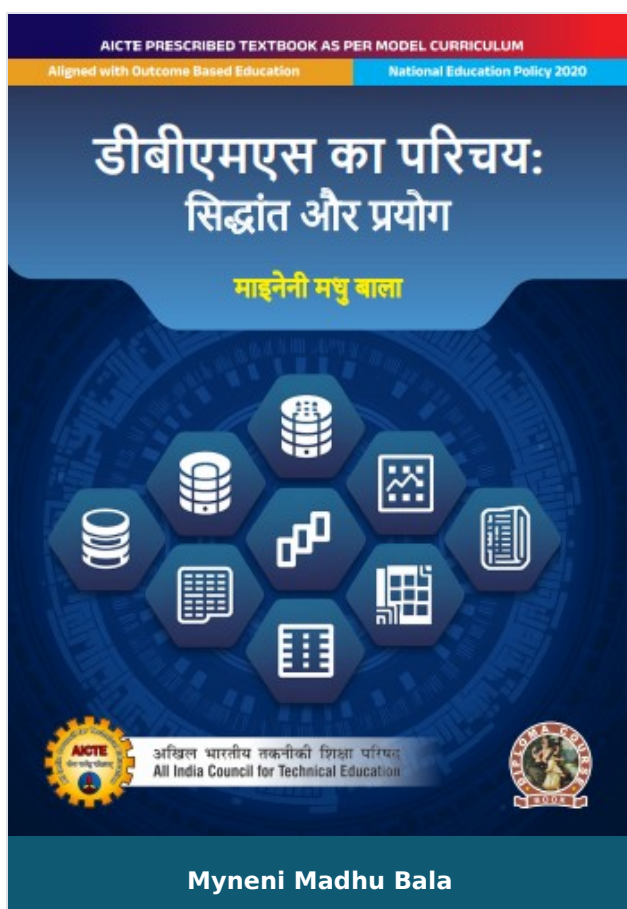




Introduction to DBMS: Theory & Practicals

Author :	Myneni Madhu Bala
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Publisher :	Khanna Publishing House
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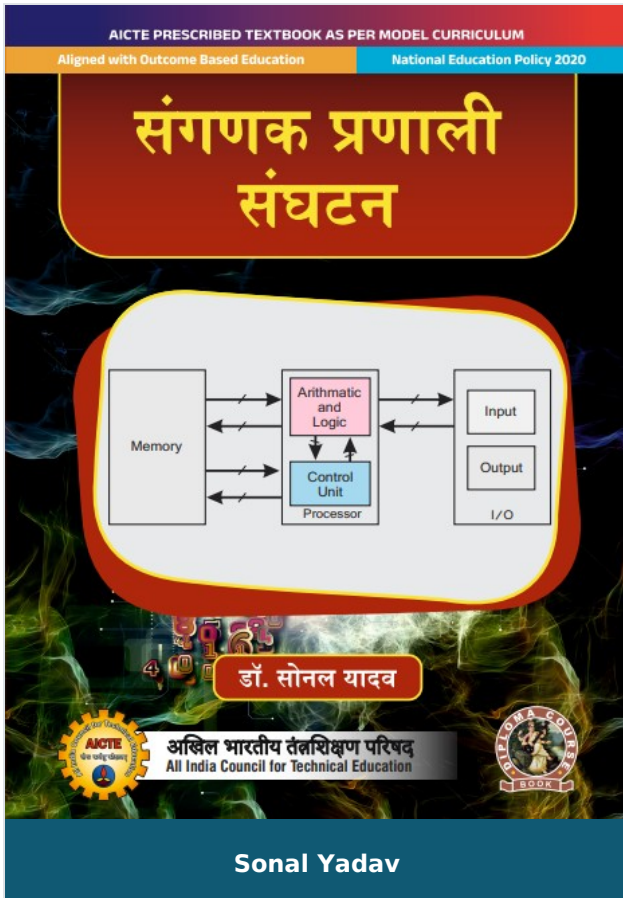
Product Description

Introduction to DBMS: Theory & Practicals

Author

Myneni Madhu Bala

Dr. Myneni Madhu Bala Professor, Department of Computer Science Engineering, Institute of Aeronautical Engineering , Telangana



Computer System Organization

Author : Sonal Yadav

ISBN 13 : 978-93-55386-94-6

ISBN 10 : 935538694X

E-ISBN 13 : 978-93-55386-94-6

Edition : First

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Publisher : Khanna Publishing House

M.R.P : Rs 348.00

Categories : [AICTE Prescribed Textbooks,](#)
[Marathi Books, Book Store](#)

Condition Type : New

Country Origin : India

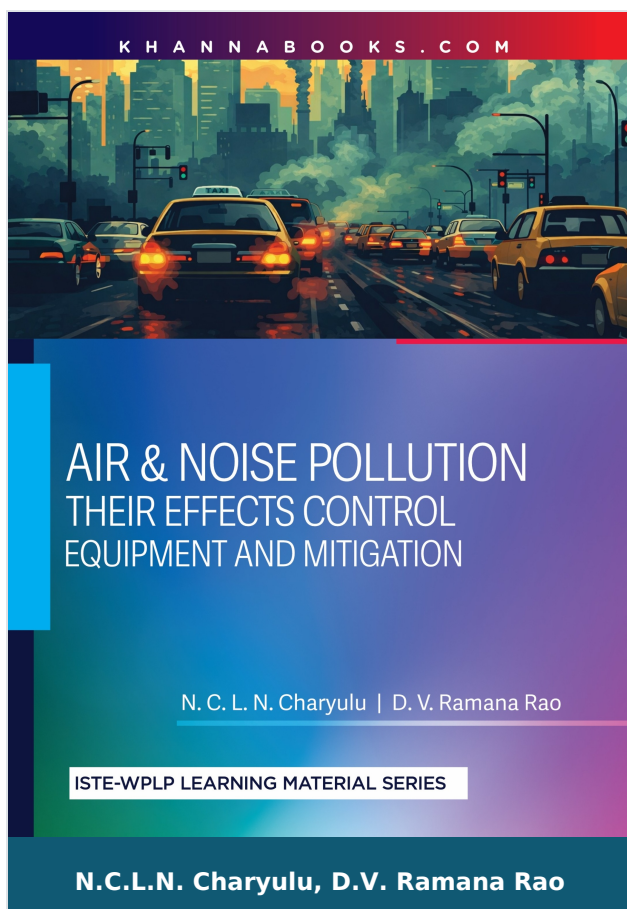
Product Description

Computer System Organization

Author

Sonal Yadav

Dr. Sonal Yadav Assistant Professor Dept. of Computer Science & Engineering (CSE)
National Institute of Technology Raipur, Chhattisgarh



Air & Noise Pollution Their Effects Control Equipment and Mitigation

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

ISBN 13 : 978-93-74549-21-6

ISBN 10 : 9374549212

E-ISBN 13 : 978-93-74549-21-6

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Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 295.00

Categories : [New Arrivals, Environmental Engineering, Book Store](#)

Condition Type : New

Country Origin : India

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 noise 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.

Table Of Contents

- FOREWORD
- PREFACE
- Air Pollution and its sources
- Global and Indian Scenarios of Air Pollution
- Theoretical Aspects Related to Air Pollution
- Health Effects Due to Air Pollution
- Standards for Air Pollution Control
- Sources Harmful Effects and Mitigation of Air Pollutants
- Equipment for Air Pollution Control - Design, Operation and Maintenance
- Base Line Data, 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

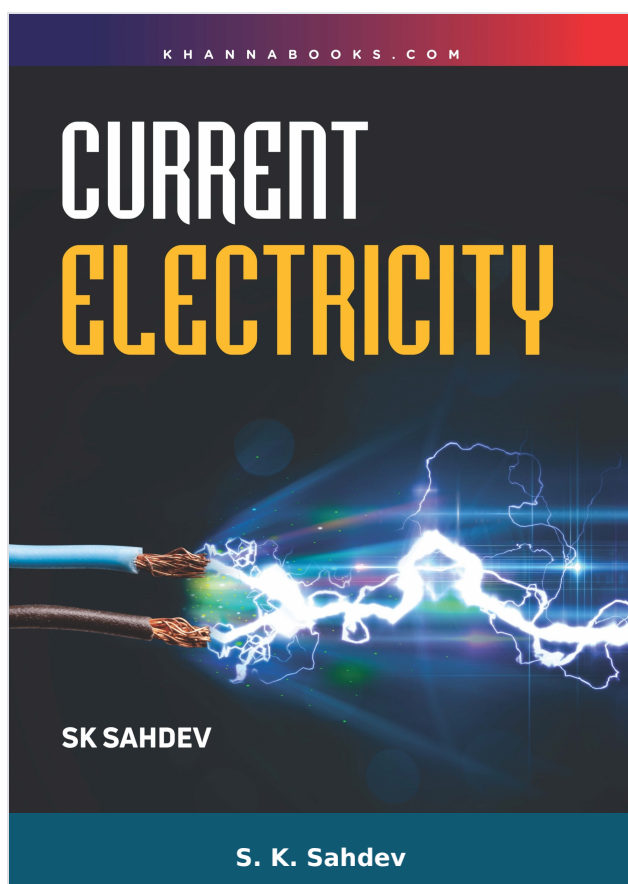
N.C.L.N. Charyulu

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 IIT 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

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

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.



Current Electricity

Author :	S. K. Sahdev
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Country Origin :	India

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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

CURRENT ELECTRICITY - SK SAHDEV

TOPICS COVERED IN THE BOOK

1. CURRENT ELECTRICITY.
2. DC CURRENT.
3. ELECTRIC CELLS.
4. LIGHTING EFFECT OF ELECTRIC CURRENT.
5. CAPACITORS.
6. ELECTROMAGNETIC EFFECTS.
7. A.C. CIRCUIT.

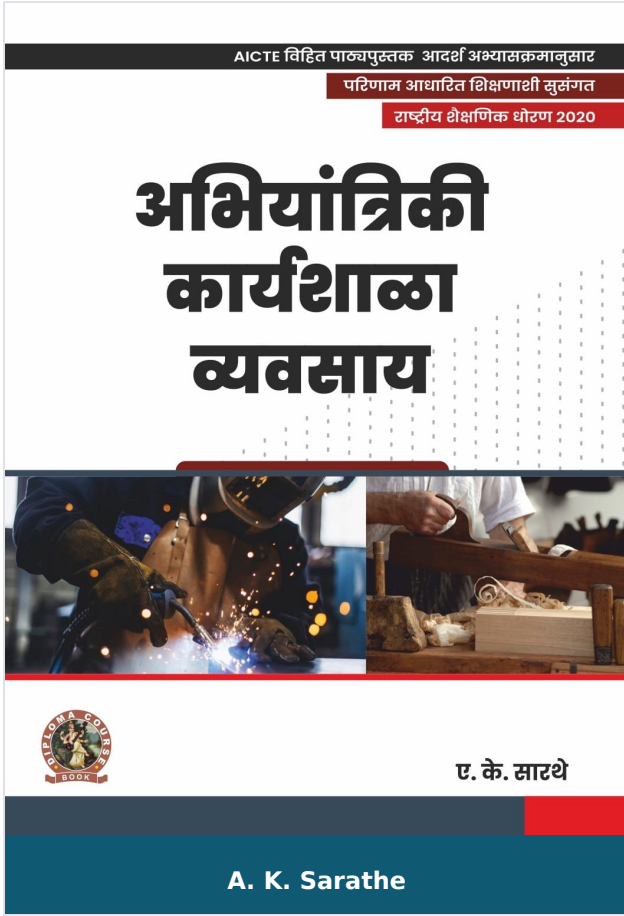
Table Of Contents

- Current Electricity.
- DC Circuits.
- Electric Cells.
- Lighting Effect of Electric Current.
- Capacitors.
- Electromagnetic Effects.
- A. C. Circuits.

Author

S. K. Sahdev

S. K. Sahdev



Engineering Workshop Practice

Author : A. K. Sarathe

ISBN 13 : 978-93-55380-12-8

ISBN 10 : 9355380127

E-ISBN 13 : 978-93-55380-12-8

Edition : First

Pages : 168

Type of book : Physical

Year : 2022

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 395.00

Categories : [AICTE Prescribed Textbooks,](#)
[Marathi Books, Book Store,](#)
[Ebooks](#)

Condition Type : New

Country Origin : India

Product Description

“ Engineering Workshop Practice Manual” is a common paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education.

Engineering Workshop Practice manual covers five units- First unit deals with the carpentry, second unit is about fitting , third unit focuses on welding, fourth units discusses about sheet metal working and the fifth unit deals with electrical house wiring . The manual comprises of total seventeen workshop practical from P1 to P17 and the same are arranged in hierarchical manner from simple to complex so that students should not only focus on completing the practical and getting the marks/ grades but will also be motivated to create useful products incorporating their creative and critical thinking as well.

Some salient features of the book:

1. Content of the manual aligned with the mapping of Course Outcomes, Programs Outcomes and practical outcomes.
2. Relevant theory has been included at the beginning of each practical.
3. The manual has been developed to ensure alignment with the Outcome Based Education philosophy and consisting of total seventeen workshop practical.
4. Unit wise practical are arranged in hierarchical manner from simple to complex.
5. Manual provides recent information and QR Code for E-resources etc.
6. Figures, photographs and table are inserted to improve clarity of the content.

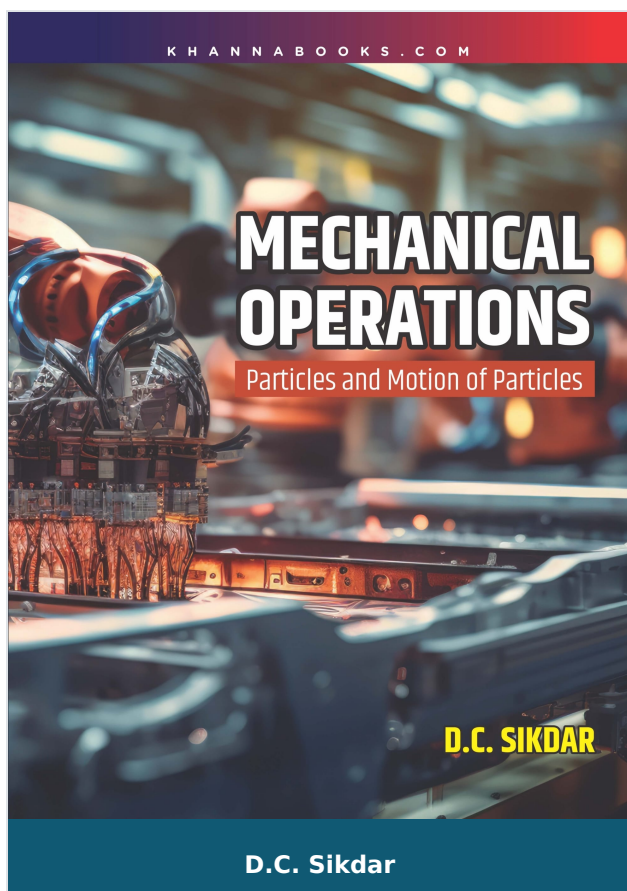
Table Of Contents

- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and Symbols,
- List of Figures,
- List of tables,
- Guidelines for Teachers,
- Guidelines for Students
- Carpentry
- Fitting
- Welding Tools and Equipment
- Sheet Metal Working
- Electrical House wiring
- Index

Author

A. K. Sarathe

A. K. Sarathe



Mechanical Operations (Particles and Motion of Particles)

Author :	D.C. Sikdar
ISBN 13 :	978-93-55380-50-0
ISBN 10 :	935538050X
E-ISBN 13 :	978-93-55380-50-0
Edition :	1
Pages :	236
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 345.00
Categories :	Chemical Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

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.
10. Magnetic Separations.
11. Jigging.

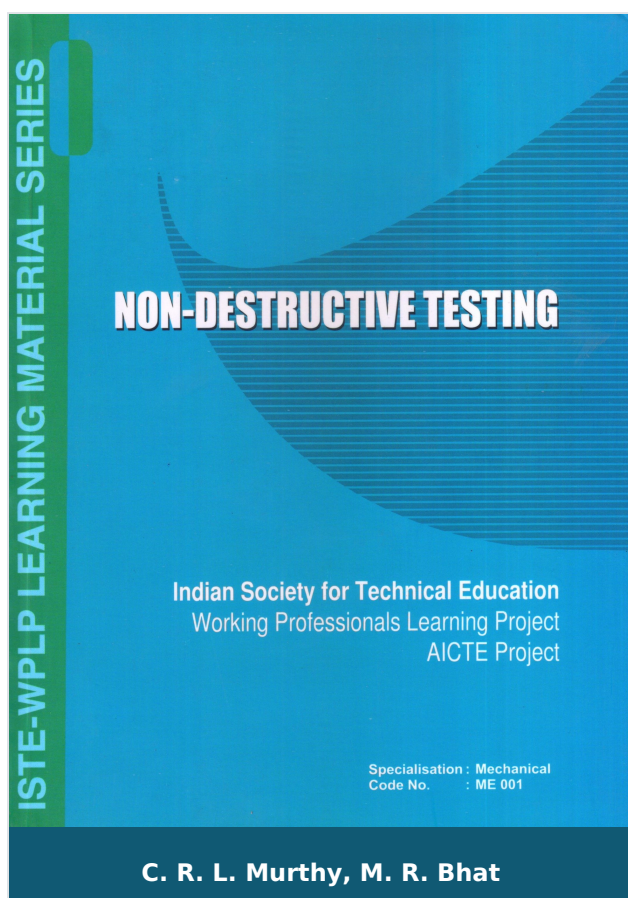
Table Of Contents

- Introduction.
- Particle Technology.
- Size Reduction.
- Flow of Fluid Past Immersed Bodies.
- Motion of Particles Through Fluids.
- Sedimentation.
- Filtration.
- Agitation and Mixing.
- Sampling, Storage and Conveying of Solids.
- Magnetic Separations.
- Jigging.

Author

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).



Non-Destructive Testing

Author : C. R. L. Murthy, M. R. Bhat

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Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 325.00

Categories : [Civil Engineering, Book Store, ISTE Series](#)

Condition Type : New

Country Origin : India

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.

Table Of Contents

- FOREWORD
- PREFACE
- SECTION-I INTRODUCTION
- NDT & E- ITS Significance
- SECTION II General and Simple Methods
 - Liquid Penetrant Testing
 - Visual Inspection
 - Leak Testing
- SECTION III Magnetic and Electro Magnetic Methods
 - Radiography
 - Real -Time Radiography
 - Computed Tomography
 - Magnetic Particle Testing
 - Eddy Current Testing
 - Thermal Inspection
- SECTION IV Acoustic Methods
 - Ultrasonic Testing
 - Acoustic Emission Testing
- SECTION V Other techniques
 - Microwave Inspection
 - Shearography,
 - Bibliography

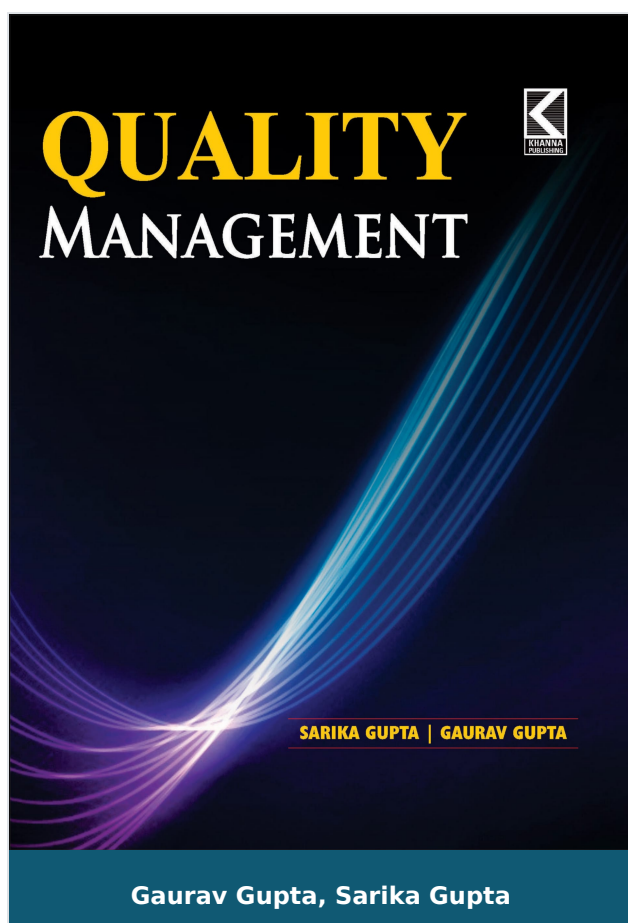
Author

C. R. L. Murthy

Prof. C. R. L. Murthy Dr.

M. R. Bhat

Dr. M. R. Bhat



Quality Management

Author :	Gaurav Gupta, Sarika Gupta
ISBN 13 :	978-93-82609-45-2
ISBN 10 :	9382609458
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Edition :	1
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Categories :	Computer Science Engineering, Book Store
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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

Quality management thinking has influenced a revolution in the way organizations are managed over the past few decades. Idea such as customer focus, ethical management, continuous improvement, Six sigma, leadership and organizational learning have all been impacted by and in some cases developed from this important field. this provides a coherent view of the underlying principles quality management, and how these relate to practical application in a range of organizations. This book is designed to provide an overview of the key elements, important historical context and current debates in the field of quality management. It aims to give a coherent view of the underlying principles of quality management, and how these relate to practical application in a range of organization.

Table Of Contents

- Introduction
- Quality Control in Purchasing
- Manufacturing Quality Origins and Principles of Lean Manufacturing
- Quality Management Organization Structure and Design
- Human Factor in Quality
- Control Charts in Quality Management
- Attributes Control Charts
- Defect Diagnosis
- ISO9000
- MODEL TEST PAPER
- QUESTION BANK

Author

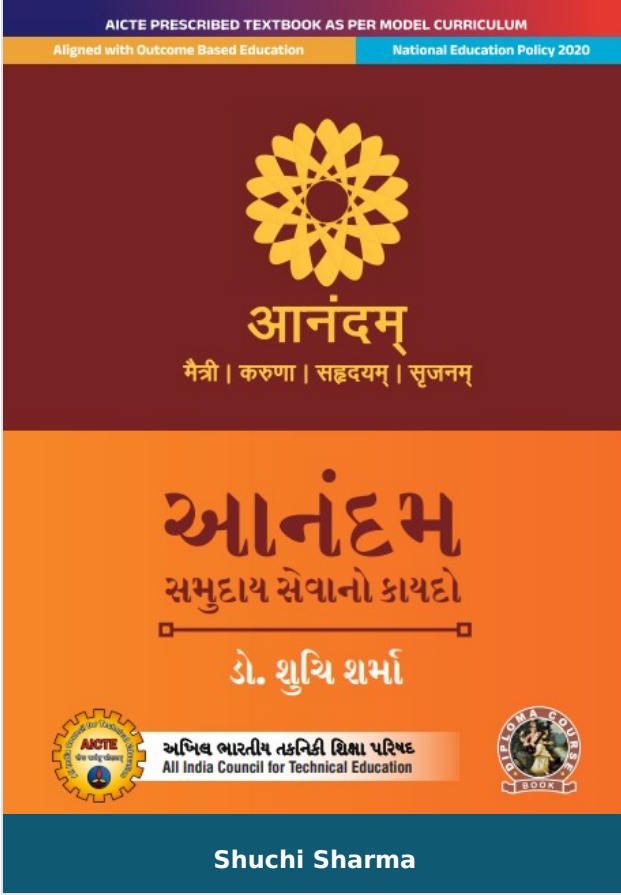
Gaurav Gupta

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 infrastructure, Project Management, Marketing Automation and different enterprise software's, CRM, ERP etc.

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.



Aanandam An Act of Community Service

Author : Shuchi Sharma

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M.R.P : Rs 148.00

Categories : [AICTE Prescribed Textbooks,](#)
[Gujarati Books, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Aanandam An Act of Community Service

Author

Shuchi Sharma

Dr. Shuchi Sharma, IAS (retd) Former Secretary Higher, Technical & Sanskrit Education,
Government of Rajasthan

K H A N N A B O O K S . C O M

Human Resource Management

DR. PREM VIR KAPOOR



Premvir Kapoor

Human Resource Management

Author : Premvir Kapoor**ISBN 13 :** 978-93-55386-84-7**ISBN 10 :** 9355386842**E-ISBN 13 :** 978-93-55386-84-7**Edition :** First**Pages :** 252**Type of book :** Physical**Year :** 2026**Language :** English**Publisher :** Khanna Publishing House**M.R.P :** Rs 325.00**Categories :** [New Arrivals, Management Books, Book Store](#)**Condition Type :** New**Country Origin :** India**Khanna Publishing House**

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

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

Human Resource Management

Human resource management by Dr. Premvir Kapoor is a comprehensive and forward-looking guide designed to navigate the complexities of managing people in a rapidly evolving global economy. Recognizing that human capital is an organization's most vital and appreciating asset, the book shifts the focus from traditional, rule-bound personnel management to a modern, humanitarian, and strategic approach. It explores how socioeconomic, technological, and political shifts – such as globalization and the rise of WTO—demand innovative mechanisms for developing employee skills and competencies.

Specifically tailored for students for students of BBA, MBA, and M. Com, the text presents complex concepts in a simple, compact, and easily understandable manner. It bridges the gap between academic theory and professional practice by covering essential topics like job analysis, recruitment, performance appraisal, and the emerging field of human resource Accounting. Whether you are a student preparing for professional examinations or a manager seeking to improve organizational effectiveness through a motivated workforce, this book provides the necessary tools to transform human potential into a source of sustainable competitive advantage.

Salient Features:

- **Strategic Capital Focus:** the text treats human resources as a form of capital and a primary investment, emphasizing that while other resources depreciate, human value appreciates through experience.
- **Comprehensive functional coverage:** it provides an in-depth look at the entire HRM lifecycle, including meticulous processes for manpower planning, recruitment, selection, and induction.

- **Scientific job Analysis:** The book details systematic methods for job description and specification, utilizing both quantitative and non-quantitative techniques to define roles and responsibilities accurately.
- **Advanced performance metrics:** Readers are introduced to sophisticated evaluation tools such as the balanced scorecard and HR scorecard to link people management directly to business performance.
- **Human Resource Accounting:** It explores modern valuation methods and models, like the lev and schwarts model, to measure the economic value of human resources within financial statements.
- **Organizational Development Insights:** The content emphasizes building an enabling culture through OD interventions, team development, and the use of change agents to faster innovation.
- **Analytical Research tools:** Dedicatied sections on personal research and auditing provide methodologies for evaluating HR effectiveness and ensuring compliance with statutory provisions.
- **Practical Learning Aids:** Each chapter is supported by learning objectives, summaries, and a detailed glossary of key terms to reinforce conceptual clarity and academic retention.

Table Of Contents

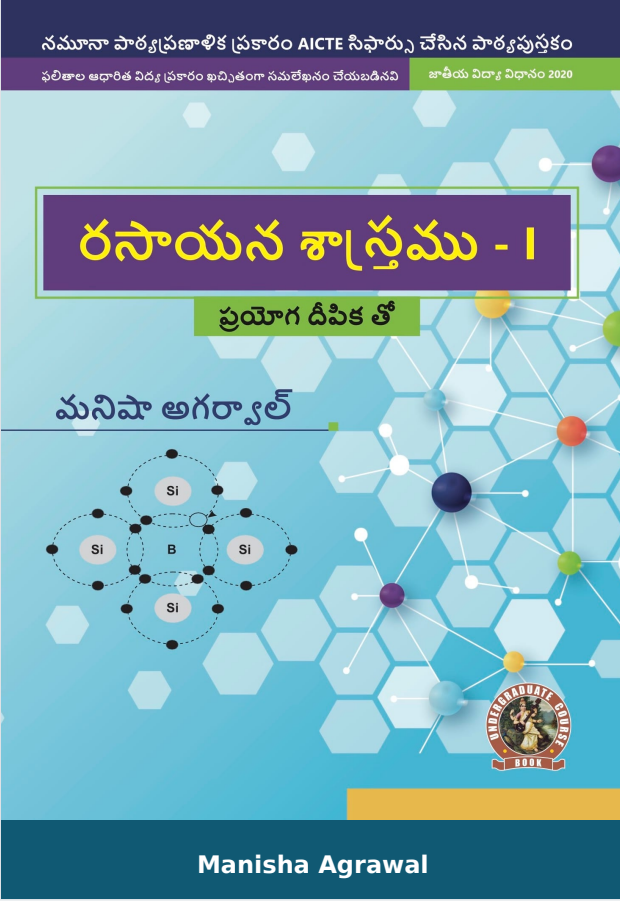
- Preface
- Managing Human Resources
- Human Resource Management
- Human Resource Planning
- Job Analysis
- Recruitment and Selection
- Training and Development
- Human Resources Development
- Performance Appraisal and Compensation Management
- Employee Relations
- Personnel Policy, Research and Audit
- Human Resource Accounting
- Auditing and Accounting
- Key Terms
- Questions for Review
- Bibliography

Author

Premvir Kapoor

Dr. Premvir Kapoor BBM(BHU), MBA(Podar Institute of Management), LLB Delhi, Ph.D(Meerut University), Diploma in Training and Development, ISTD New Delhi, Diploma in Corporate Laws and Secretarial Practice(Indian Law institute New Delhi). He has worked s Director in Sri Ram Institute of Management and IIMT Institute of Management, Greater Noida and Professor of Human Resource Management at IMS Ghaziabad and

Lingaya University Faridabad. He has been associated with some of the leading Institutes of Company Secretaries of India, Institute of Marketing management, Western U.P Productional Council. He is a member of Indian Law Institute, New Delhi. He has been visiting faculty at various prestigious business schools.



Chemistry I (with Lab Manual)

Author :	Manisha Agrawal
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	AICTE Prescribed Textbooks, Telugu Books, Book Store, Ebooks
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 in 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 use 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.

Table Of Contents

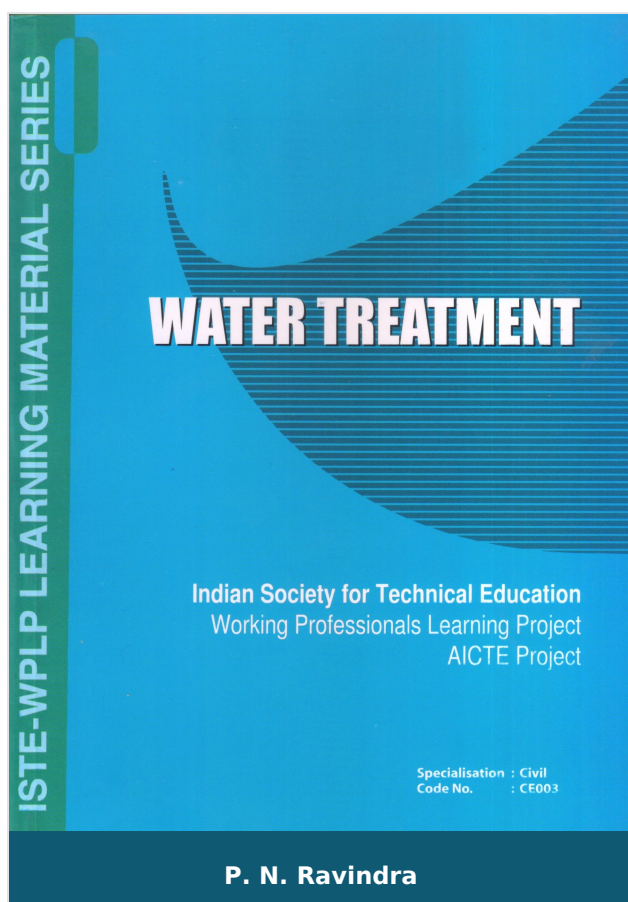
- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Guidelines for Teacher
- Guidelines for Students
- Atomic and
- Molecular Structure
- Spectroscopic
- Techniques and Applications
- Intermolecular
- Forces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

- 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.



Water Treatment

Author :	P. N. Ravindra
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Publisher :	Khanna Publishing House
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Country Origin :	India

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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

Water works engineers should be aware of the wider issues concerning the principles of wastewater treatment. This in turn requires not only good design engineering, but also better working knowledge of the system. In this context, this book will make a significant contribution for enhancing knowledge from basics to the advancement in the field of wastewater treatment.

This book written under working professionals learning project is with the intention of providing sufficient information and knowledge about the principles of wastewater treatment to the water works engineers. This book comprehensively deal with the basic of wastewater treatment, laying emphasis on current trends. To convey ideas and concepts more clearly, the book contains descriptive diagrams with suitable explanation. The book covers a broad spectrum of material dealing with wastewater treatment, as it is far more than just as update of the existing books on wastewater treatment, which includes the latest concepts and processes. This learning material will also be a useful reference book for planners, administrators, students and general readers. It will be of interest to wastewater treatment. One who reads this book systematically from chapter one will surely acquire an understanding on the concepts of wastewater treatment, including schemes of treatment.

Table Of Contents

- Foreword
- Preface
- Wastewater.
- Wastewater Treatment.
- Preliminary and Primary Treatment units.
- Sedimentation.
- Biological Treatment Processes.
- Activated Sludge Process.
- Advanced Wastewater Treatment.
- Natural Treatment System.
- Residual Management.
- Membrane Treatment Systems.
- References
- Glossary
- Abbreviations

Author

P. N. Ravindra

Dr. P. N. Ravindra The author of this book is working as Assistant Executive Engineering for Bangalore Water Supply and Sewerage Board (BWSSB) and has more than 25 years of working experience in the field of water and wastewater treatment. He has written several books in water discipline and published several research papers. It is a matter of pride and privilege for the author to write a book for his fellow engineers, who can make this book worthwhile. He acknowledges the help he has received from Mr Narayana, Cheif

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