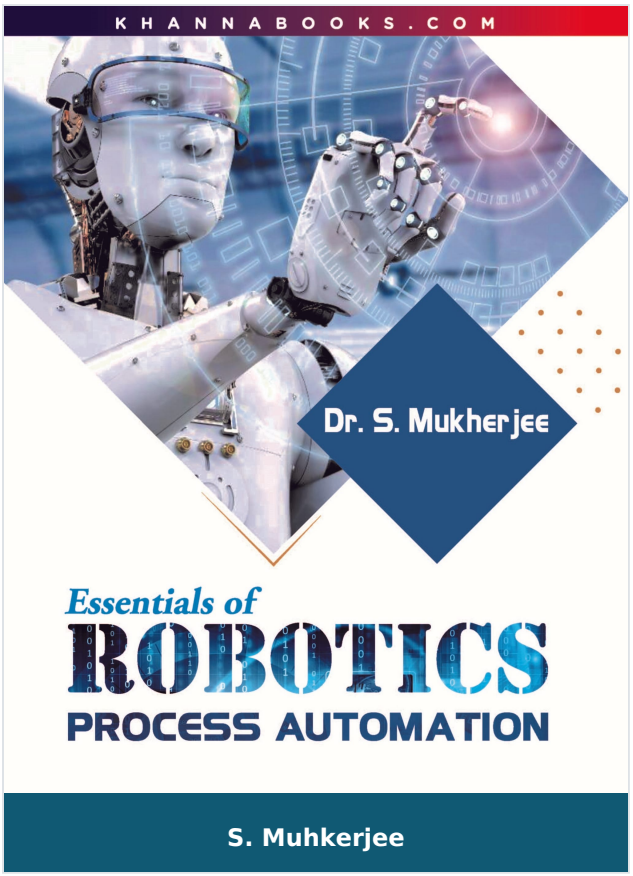

Essentials of Robotics Process Automation

Author :	S. Muhkerjee
ISBN 13 :	978-93-86173-75-1
ISBN 10 :	9386173751
E-ISBN 13 :	978-93-86173-75-1
Edition :	First
Pages :	280
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 499.00
Categories :	Computer Science Engineering, Mechanical Engineering, Emerging Technologies, Book Store
Condition Type :	New
Country Origin :	India

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This Robotics Process Automation book describes the RPA platform for the future of business process automation. More precisely this RPA book has tried to innumerate the followings:

1. RPA that brings speed to your digital transformation.

2. RPA helps to get rid of resource burden and it's consequences.

3. This emphasizes Business process automation must be in the hands frontline.

4. Only Automation Anywhere Enterprise combines consumer-like usability with enterprise-class reliability, and security for RPA that empowers the workforce to automate on their own, in real time.

5. What does RPA mean for business?

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- Kinematics
- Robot Actuation and Hardware Interface
- Robotics Process Automation Impacts on Business
- Case Study (List of Practicals)
- RPA Interview (Questions and Answers)

Author

S. Muhkerjee

S. Muhkerjee Dr. Santosh Mukherjee is at present working as Chief Architect cum Chief Scientist and President of Santech International Inc.(San-Lab). Dr. Santosh Mukherjee is an young, award winning, widely proclaimed energetic and emerging Technologist & Scientist, who is one of the pioneer in the Technology fields of Digital technology focus-sing in Telecommunication/Nanotechnology, and Power/Medical Tech specializes in convergence connectivity, with 30 yrs professional experiences with Fortune 100 USA organization as Senior VP Innovation and Chief Scientists. Having experience to work as academia with the best Universities of USA, having qualification of D.Sc and PhD in the relevant field of interest. He has many patents approved by USGOV and also few are in the process. He is joint patent holder of many patents, during his service career with the Above companies He has published four similar kinds of technological books. He is associated with IEEE, World Bank , American Management Association, NJTC, Asian Development Bank, Member of Indian Govt. Tech Diaspora and Knowledge Commission.

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Recipients of the award, "Best Technologist & Emerging Scientist of the Year 2003" from Chair person of Science and Tech Commission, USA in the Capitol Hill, but it Washington His leadership also include in accomplishing to develop an NRI Complex in India of American. He is “Technical Advisor “ of Federal Commission of USA of “ Science & Technology “ and “Energy” from 2010 .

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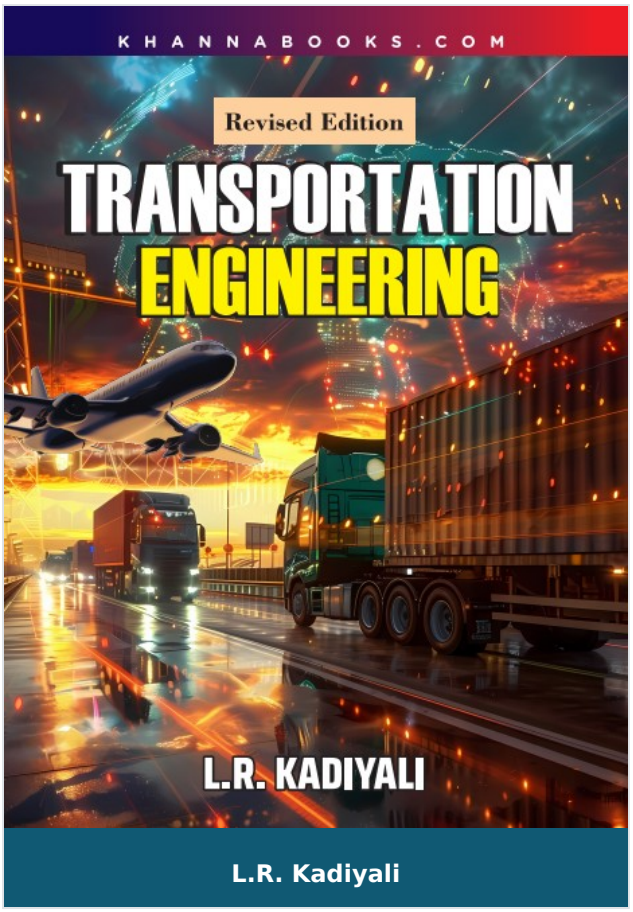

L.R. Kadiyali

Transportation Engineering

Author :	L.R. Kadiyali
ISBN 13 :	978-93-82609-85-8
ISBN 10 :	9382609857
E-ISBN 13 :	978-93-82609-85-8
Edition :	First
Pages :	408
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store, Best Sellers
Condition Type :	New
Country Origin :	India

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India's Transport System has several deficiencies such as inadequate capacity, poor safety record, emission of pollutants and outmoded technology. But as the economy is poised for a big growth in the coming years transportation engineers will have to come up with innovative ideas.

The book addresses these issues and it is hoped that the engineering students studying transportation engineering will have a clear idea of the problems involved and how they transportation engineering will have a clear idea of the problems involved and how they can be overcome in their professional career. This book has been designed keeping in mind the latest syllabi of all major Indian Universities.

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- Transit Sheds, Warehouses and Cargo Handling Facilities
- Inland Water Transport
- SECTION-7: MULTI-MODAL TRANSPORT
- Multi-Modal Transport

Author

L.R. Kadiyali

L.R. Kadiyali Dr. L.R.Kadiyali is B.E.(Hons.), from Bombay and pursued Ph.D. from Kakatiya University.He has done P.G. diploma in Highway and Traffic Engineering from Newcastle-Upon-Tyne. He is Formerly Chief Engineer, (Roads Wig), Ministry of Road Transport & Highways, New Delhi and Study Director, Road User Coast Study, Central Road Research Institute New Delhi.

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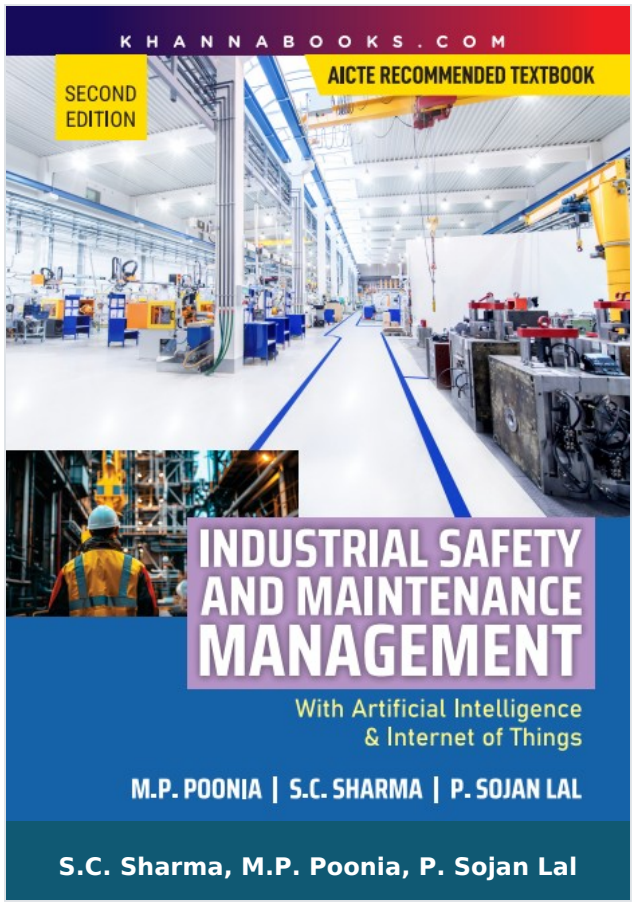

Industrial Safety and Maintenance Management (With Artificial Intelligence & Internet of Things)

Author :	S.C. Sharma, M.P. Poonia, P. Sojan Lal
ISBN 13 :	978-93-55389-48-0
ISBN 10 :	9355389485
E-ISBN 13 :	978-93-55389-48-0
Edition :	Second
Pages :	452
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 550.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House
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In the age of industrialization having main focus on increased production, higher productivity, stringent quality, minimizing cost etc., it has become essential to have more knowledge on industrial safety and various hazards with their remedial measures. Maintenance aspects are also gaining importance, as they have substantial impact on production, productivity, workers safety and their health and working environment. Neglect of safety in an industry at any stage. from concept to design, erection, commissioning, operation and maintenance of plant and machinery may lead to loss of life, production and money. It is hoped that this book will be very useful for the engineering student and professionals. The book covers the AICTE model curriculum and the syllabi of various other Indian university on the subject.

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- Safety Performance
- Fire and Explosions
- Fire Prevention, Protection and Control
- Electrical Safety
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- Hazards in Industry and Safe Working Practice
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- Maintenance, Availability and Failure Analysis
- Replacements Economics
- Maintenance and Repairs of Defects/Failures
- INDEX

Author

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S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

M.P. Poonia

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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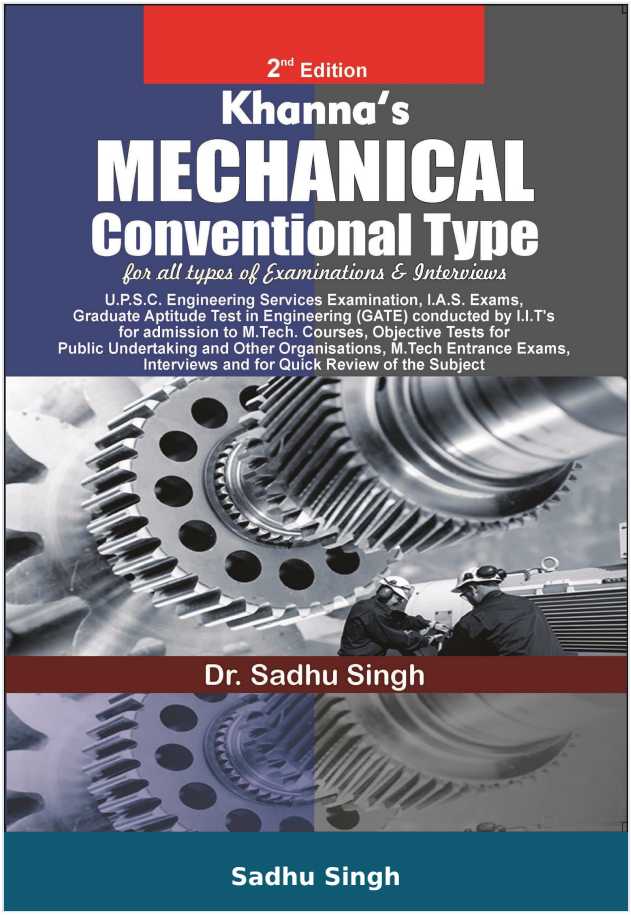

Khanna's Mechanical Conventional Type

Author :	Sadhu Singh
ISBN 13 :	978-93-82609-61-2
ISBN 10 :	938260961X
E-ISBN 13 :	978-93-82609-61-2
Edition :	Second
Pages :	1094
Type of book :	Physical
Year :	2015
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 625.00
Categories :	Mechanical Engineering, OBJECTIVE TYPE BOOKS, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House
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Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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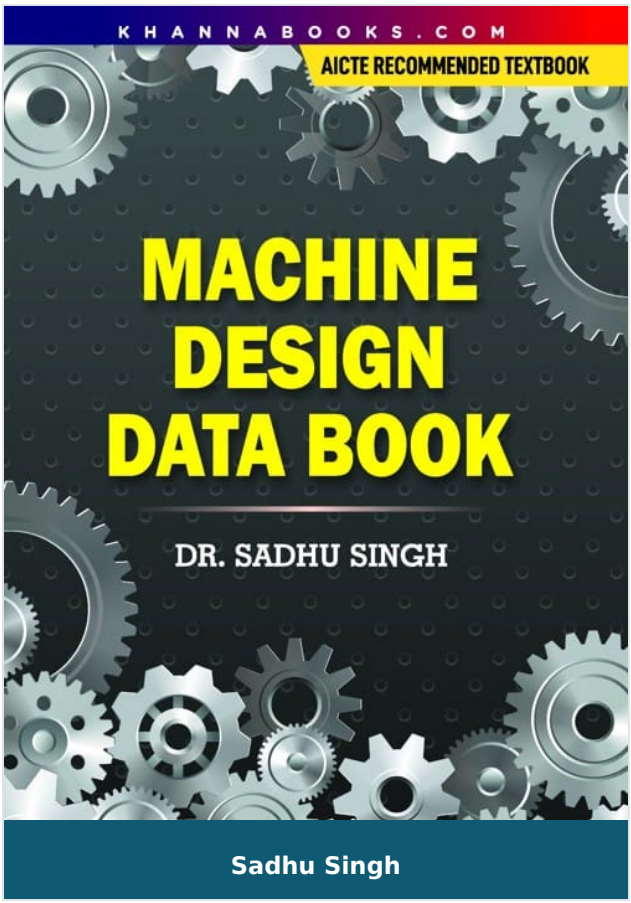

Machine Design Data Book

Author :	Sadhu Singh
ISBN 13 :	978-93-82609-51-3
ISBN 10 :	9382609512
E-ISBN 13 :	978-93-82609-51-3
Edition :	Revised
Pages :	320
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 360.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store, Best Sellers
Condition Type :	New
Country Origin :	India

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

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Author

Sadhu Singh

Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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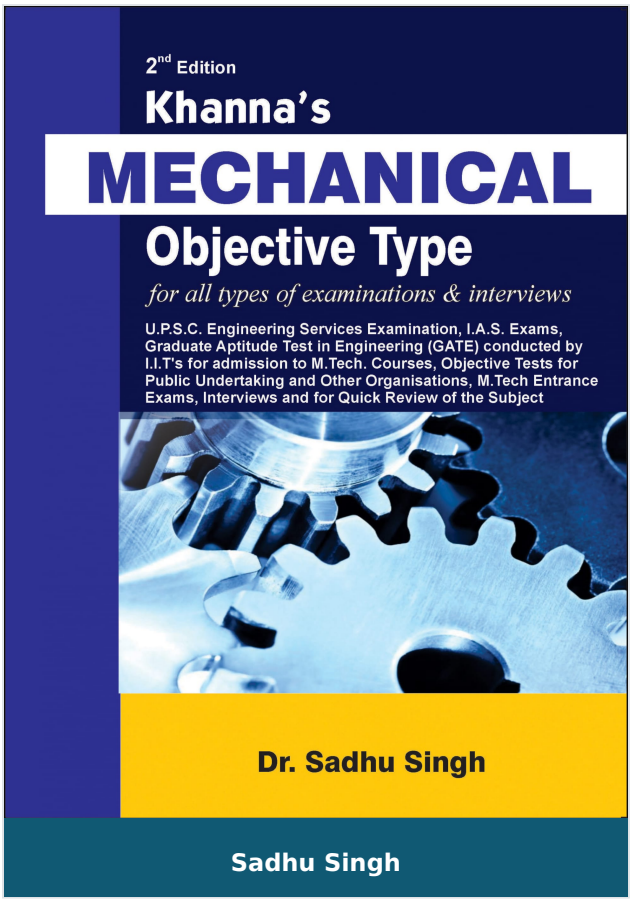

Khanna's Mechanical Objective Type

Author :	Sadhu Singh
ISBN 13 :	978-93-82609-60-5
ISBN 10 :	9382609601
E-ISBN 13 :	978-93-82609-60-5
Edition :	2
Pages :	1100
Type of book :	Physical
Year :	2015
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 625.00
Categories :	Mechanical Engineering, OBJECTIVE TYPE BOOKS, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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U.P.S.C. Engineering services examination, I.A.S. exams, Graduate aptitude test in engineering (GATE) conducted by I.I.T's for admission to M. Tech. courses, Objective tests for public undertaking and other organizations, M. Tech entrance exams, Interview and for quick review of the subject. An attempt has made by the author to present explanatory notes and answers to all the questions as correctly as possible for the question papers from 1992 to 2000 Topic wise and from 2001 to 2014 Year wise. This shall help aspiring candidates better to prepare for the ensuing IES examinations.

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- Operations Research

Author

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Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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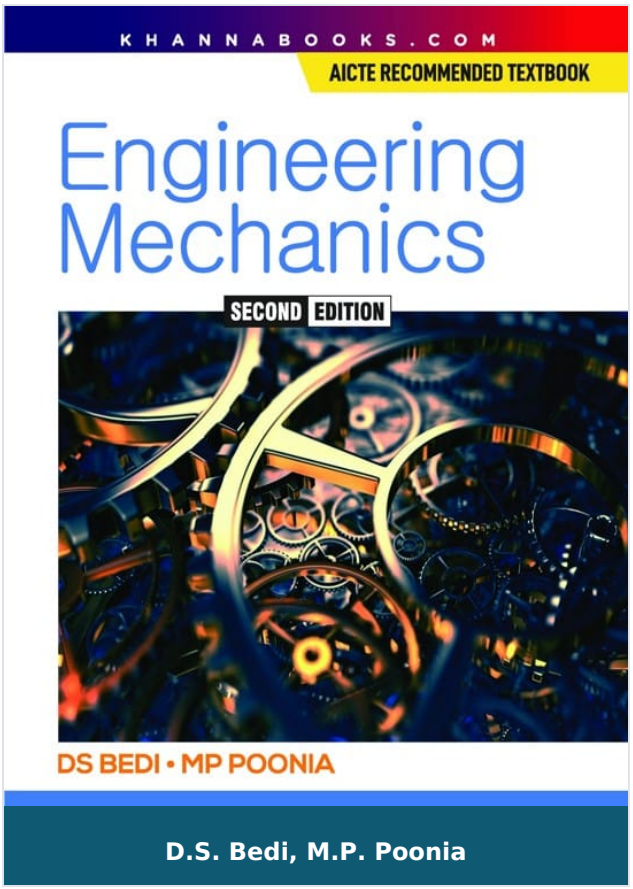

D.S. Bedi, M.P. Poonia

Engineering Mechanics

Author :	D.S. Bedi, M.P. Poonia
ISBN 13 :	978-93-86173-26-3
ISBN 10 :	9386173263
E-ISBN 13 :	978-93-86173-26-3
Edition :	Second
Pages :	596
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 525.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, 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

This book is based on expertise of the authors obtained through their long teaching careers. It is put up in a simple language so that it could cater to one and all.

The attention of the students is drawn to the topics of bending moments and twisting moments which are not properly explained in most of other books. They have been explained with the help of Vectors, which are used to present these quantities in such a way that one can easily distinguish between these two, as what is Bending moments and what is Twisting Motions.

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- IMPORTANT MATHEMATICAL FORMULAE

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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.

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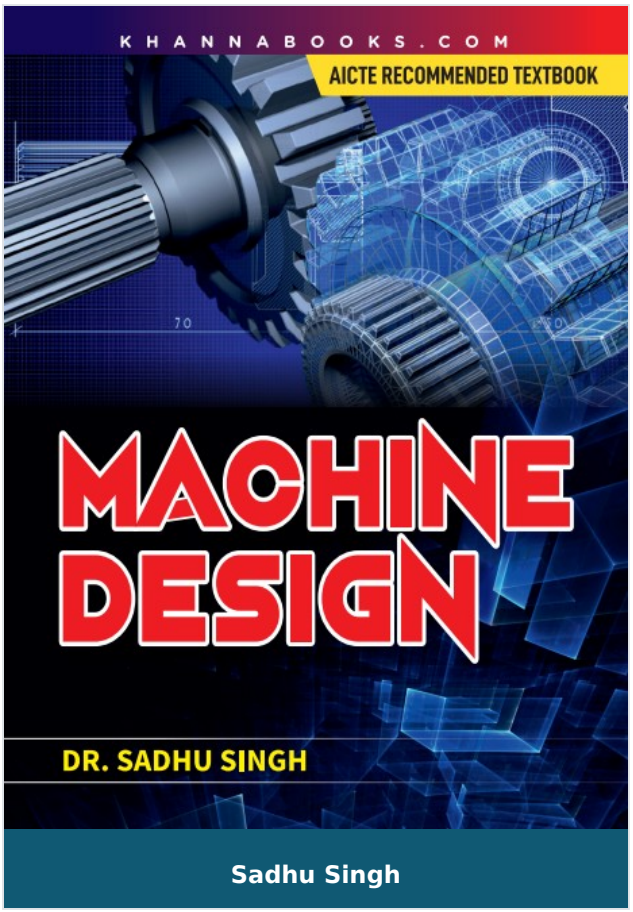

Machine Design

Author :	Sadhu Singh
ISBN 13 :	978-93-82609-57-5
ISBN 10 :	9382609571
E-ISBN 13 :	978-93-82609-57-5
Edition :	1
Pages :	826
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 575.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

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This book is useful for the students of B. Tech/ B.E. for all Indian Universities and Institutions. This book covers all the topics related to Machine Design components and Machines. The matter contains data as per BIS. A lot many problems have been solved taking data from BIS. utilizing the the latest standards and codes, it is expected that the book shall be appreciated by the students as well as teachers.

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- Pine Joints
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- Flat & V-Belts
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- Clutches and Brakes
- Internal Combustion Engine Parts
- Lubrication in Transmission System
- Multi-Choice Questions

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Refrigeration and Air Conditioning

Author :	Sadhu Singh
ISBN 13 :	978-93-86173-08-9
ISBN 10 :	9386173085
E-ISBN 13 :	978-93-86173-08-9
Edition :	First
Pages :	820
Type of book :	Physical
Year :	2021
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 499.00
Categories :	Mechanical Engineering, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

Refrigeration and Air-Conditioning is a compulsory subject for the B Tech Mechanical Engineering and other allied branches. It is offered in the final year of the degree program. it is also taught to Diploma students. With the global problem of environment pollution, warming and ozone layer depletion, the importance of this subject has increased manifold in the engineering education The subject is also important from the pint of view of job opportunities as it is an essential part of any competitive examination.

Many books on this subject are available in the market but most of these books do not cover the various aspects of this subject. The author has a vast experience of teaching and administration in reputed institution and Universities of the country. The author has also long experience of association with the National level examining bodies like UPSC and State Level Public Service Commissions to conduct examinations for National and State Services. This vast experience of the author has been utilized in writing the book.

The book contains seventeen chapters on : Basic Concepts of Thermodynamics, Fundamentals of Refrigeration, Air Refrigeration Cycles, Aircraft Refrigeration Systems, Simple Vapour Compression Systems, Multi - Stage Vapour Compression Systems, Vapour Absorption refrigeration Systems, Refrigerants, Refrigeration Equipment, Cryogenics, Steam Jet Refrigeration System, Psychometric. Comfort Air-Conditioning, Cooling and Heating Load Estimation, Ducts Design, Fans, and Applications of Refrigeration and Air - Conditioning.

A large number of Multiple - Choice Questions from Gate and Civil Services Examinations have been given in the form of appendices. Useful Tables and Charts have been given at the end of the book. Numerical Problems from Indian Engineering Services Examinations conducted by the UPSC are given chapter wise.

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- Psychrometry
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- Cooling and Heating Load Estimation
- Ducts Design
- Fans
- Applications of Refrigeration And Air-Conditioning

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experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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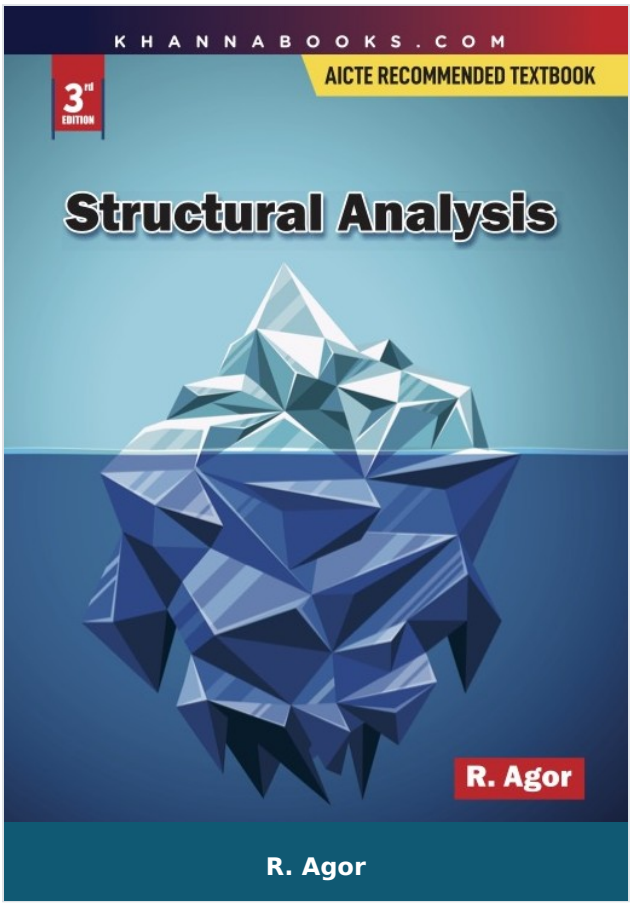

R. Agor

Structural Analysis

Author :	R. Agor
ISBN 13 :	978-81-95123-10-0
ISBN 10 :	8195123104
E-ISBN 13 :	978-81-95123-10-0
Edition :	Third
Pages :	640
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 550.00
Categories :	Mechanical Engineering, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

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This Book Provided the requisite details of the subject structural analysis in a simple and lucid language to cater the needs of the undergraduate students of bachelor of Civil Engineering in Engineering Colleges of Indian universities abroad.

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- * Columns
- * Torsion
- * Rivetted & Bolted Joints
- * Welded Joints
- * Principal Stresses (Mohr's Circle)
- * Fixed End Beams

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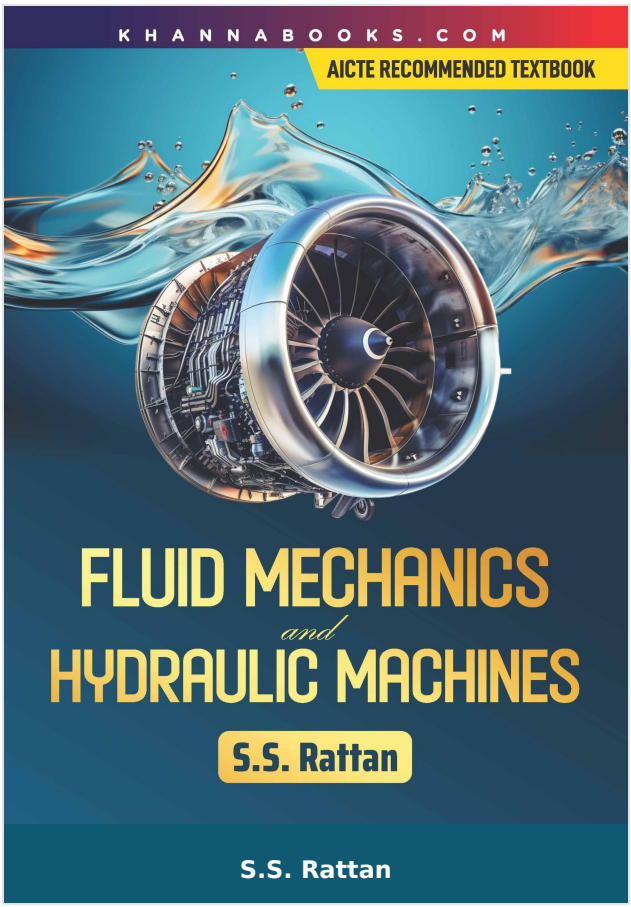

Fluid Mechanics and Hydraulic Machines

Author :	S.S. Rattan
ISBN 13 :	978-81-87522-46-1
ISBN 10 :	8187522461
E-ISBN 13 :	978-81-87522-46-1
Edition :	1
Pages :	752
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 548.00
Categories :	Mechanical Engineering, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Written in an innovative style, this book in SI system of units is a complete treatise on fluid mechanics and hydraulic machines. It presents the subject matter in an explicit, lucid and comprehensive manner. Simple mathematical models have been used to describe the intricate physical concepts.

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- Flow in Open Channels
- Boundary Layer Theory
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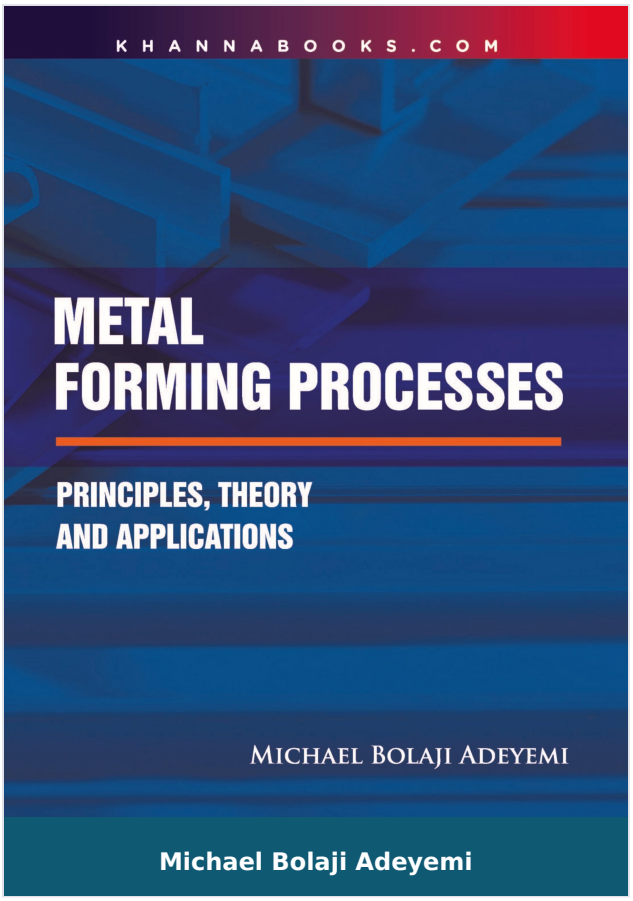

Metal Forming Process

Author :	Michael Bolaji Adeyemi
ISBN 13 :	978-81-95123-17-9
ISBN 10 :	8195123171
E-ISBN 13 :	978-81-95123-17-9
Edition :	First
Pages :	500
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 650.00
Categories :	Mechanical Engineering, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

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This book is written to provide the following unique features:

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- It contains many recent developments and new topics of research in metal forming processes.
- It is an excellent reference book with theoretical formulations and operating principles for various technological developments in metal forming Processes that can be useful to practicing engineers.
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