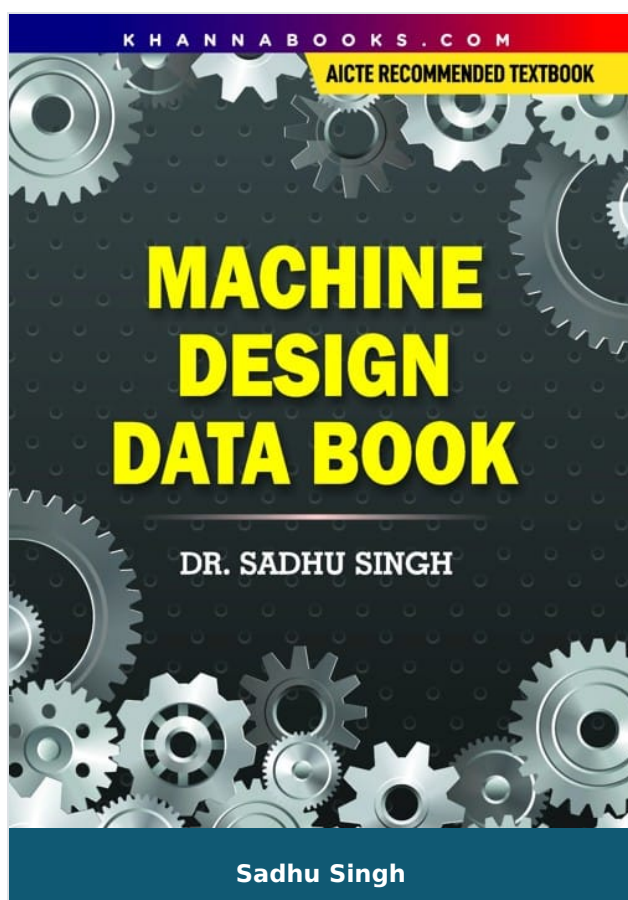




Machine Design Data Book

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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The book shall be useful to the students and teacher of all Indian Universities and Institutions in the branches of mechanical Engineering, Production Engineering, Aeronautical Engineering, Agricultural Engineering, Chemical Engineering and other allied branches.

Table Of Contents

- Basic Design Data
- Engineering Materials
- Design for Static Loading
- Design for Variable Loading
- Riveted Joints
- Welded Joints
- Screwed Joints
- Power Screws
- Transmission Shafts
- Keys and Couplings
- Cotter Joints
- Knuckle Joint
- Pipe Joints
- Mechanical Springs
- Flat and V-Belts
- Chains and Ropes
- Spur Gears
- Helical Gears
- Bevel Gears
- Worm Gears
- Sliding Bearings
- Rolling Contact Bearings
- Flywheel

- Clutches and Brakes
- Internal Combustion Engine Parts

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 Department and Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.



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

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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.

Table Of Contents

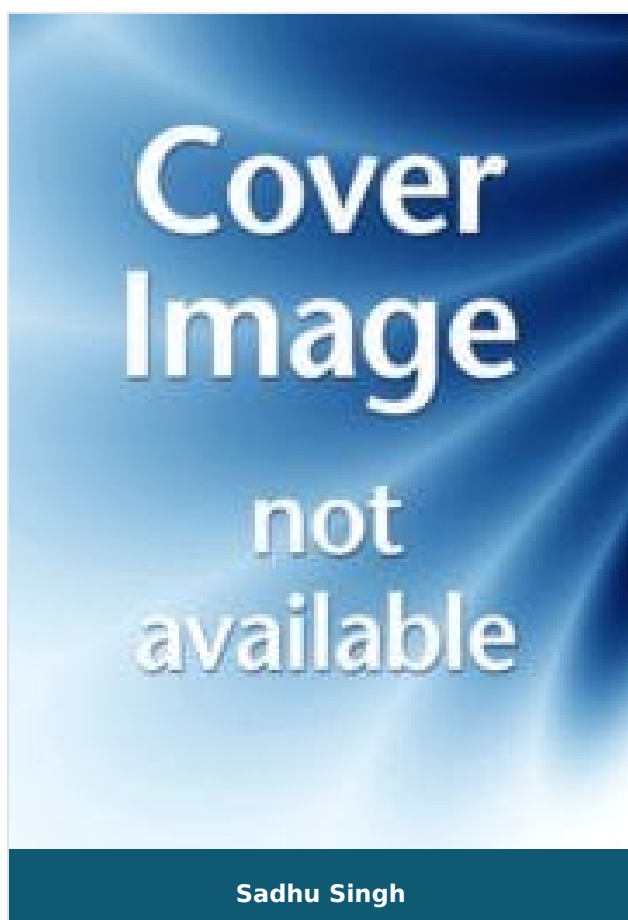
- Thermodynamics
- Internal Combustion Engines
- Heat and Mass Transfer
- Refrigeration and Air-Conditioning
- Fluid Mechanics
- Fluid Machinery
- Power Plant Technology
- Turbomachinery
- Engineering Mechanics
- Strength of Material
- Theory of Machines
- Vibration Analysis
- Machine Design
- Engineering Materials
- Metal Forming
- Metal Casting
- Fabrications Process
- Metal Cutting
- Tool Engineering
- Metrology and Inspection
- Work Study
- Inventory Control
- Production Planning and Control

- Operations Research

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Khanna's Conventional & Objective Type Questions & Answers in Mechanical Engineering

Author :	Sadhu Singh
ISBN 13 :	978-93-86173-97-3
ISBN 10 :	9386173972
E-ISBN 13 :	978-93-86173-97-3
Edition :	First
Pages :	900
Type of book :	Physical
Year :	2018
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 750.00
Categories :	OBJECTIVE TYPE BOOKS, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Khanna's Conventional & Objective Type Questions & Answers in Mechanical Engineering

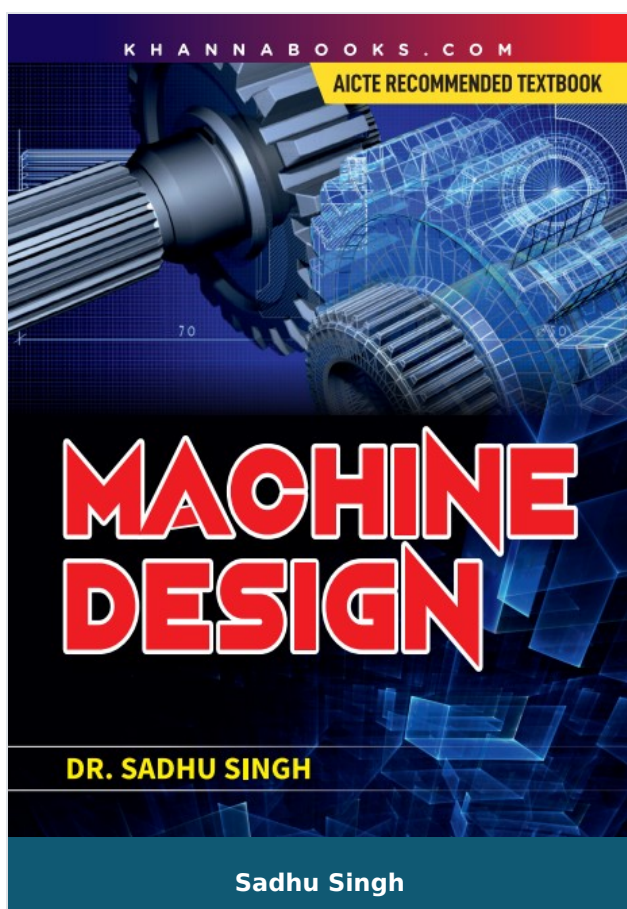
Table Of Contents

- Khanna's Conventional & Objective Type Questions & Answers in Mechanical Engineering

Author

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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

Khanna Publishing House

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Product Description

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.

Table Of Contents

- Engineering Design
- Selection of Engineering Materials
- Design for Static Load
- Design for Variable Load
- Riveted Joints
- Welded Joints
- Screwed Joints
- Power Screws
- Transmission Shafts
- Keys and Couplings
- Levers
- Cotter and Knuckle-Joints
- Pine Joints
- Mechanical Springs
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- Worm Gears
- Siding Bearings
- Rolling Contact Bearings
- Flywheel

- Clutches and Brakes
- Internal Combustion Engine Parts
- Lubrication in Transmission System
- Multi-Choice Questions

Author

Sadhu Singh

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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

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

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 point 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 institutions 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, Psychrometric. 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.

Table Of Contents

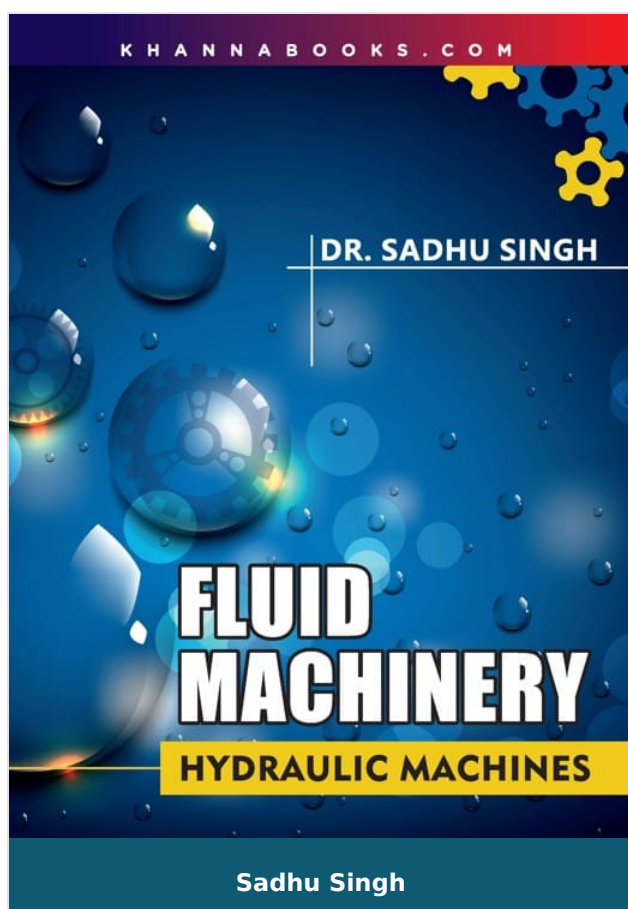
- Basic Concepts of Thermodynamics
- Fundamentals of Refrigeration
- Air Refrigeration Cycles
- Aircraft Refrigeration Systems
- Simple Vapour Compression Systems
- Multi-Stage Vapour Compression Systems
- Vapour Absorption Refrigeration Systems
- Refrigerants
- Refrigeration Equipment
- Cryogenics
- Steam Jet Refrigeration
- Psychrometry
- Comfort Air-Conditioning
- Cooling and Heating Load Estimation
- Ducts Design
- Fans
- Applications of Refrigeration And Air-Conditioning

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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 Department and Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.



Fluid Machinery (Hydraulic Machines)

Author :	Sadhu Singh
ISBN 13 :	978-93-82609-28-5
ISBN 10 :	9382609288
E-ISBN 13 :	978-93-82609-28-5
Edition :	1
Pages :	480
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 475.00
Categories :	Mechanical Engineering, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This is a text book for B.E./ B. Tech. students of all Indian Universities and Institutions. The book contains fifteen chapters. The book contains a large number of solved and unsolved problems. The special features of the book are: summery, Review Question, Multi-choice Questions and end of chapter numerical problems.

Table Of Contents

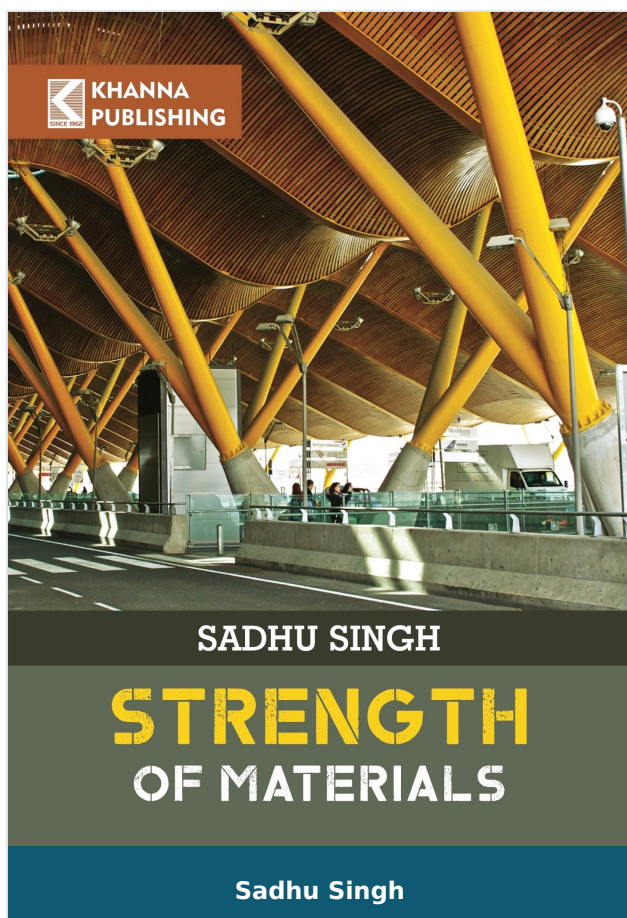
- Basic Concepts of Fluid Machinery
- Whirling of Fluids
- Hydro Power Generation Fundamentals
- Unit and Specific Quantities
- Pelton Turbine
- Francis Turbine
- Kaplan Turbine
- Draft Tube and Cavitation
- Governing, Selection and Performance of Hydraulic Turbines
- Reciprocating Pumps
- Centrifugal Pump
- Fluid Devices and Systems
- Fluid Laboratory Practice
- Conventional Questions From IES
- Multi-Choice Questions From IES
- Subject Index

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 Department and Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.



Strength of Materials

Author :	Sadhu Singh
ISBN 13 :	978-93-81068-80-9
ISBN 10 :	9381068801
E-ISBN 13 :	978-93-81068-80-9
Edition :	First
Pages :	600
Type of book :	Physical
Year :	2021
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 425.00
Categories :	Civil Engineering, Civil Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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

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Product Description

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Table Of Contents

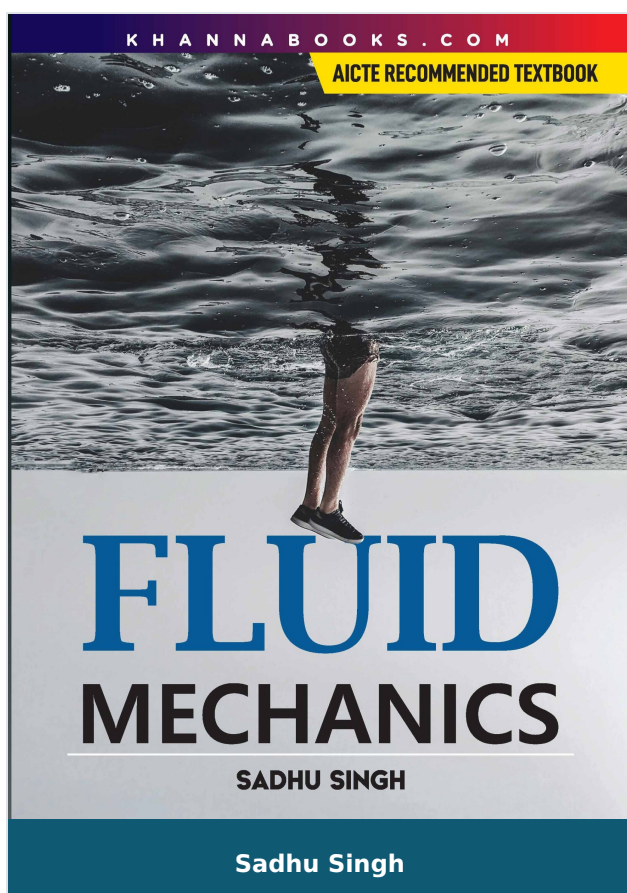
- Compound Stresses and Strains
- Theories of Failure
- Three Dimensional Stresses and Strains
- Stresses in Beams
- Deflection of Beams
- Fixed and Continuous Beams
- Torsion of Shafts
- Columns and Struts
- Helical and Leaf Springs
- Thin Cylinders and Spheres
- Thick Cylinders and Spheres
- Rotating Discs and Cylinders
- Curved Beams
- Unsymmetrical Bending
- Appendix -I
- Appendix-II

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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 Department and Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.



Fluid Mechanics | AICTE Recommended Textbook

Author :	Sadhu Singh
ISBN 13 :	978-93-81068-65-6
ISBN 10 :	9381068658
E-ISBN 13 :	978-93-81068-65-6
Edition :	First
Pages :	680
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	Civil Engineering, Mechanical Engineering, UNIVERSITY RECOMMENDED, Civil Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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Table Of Contents

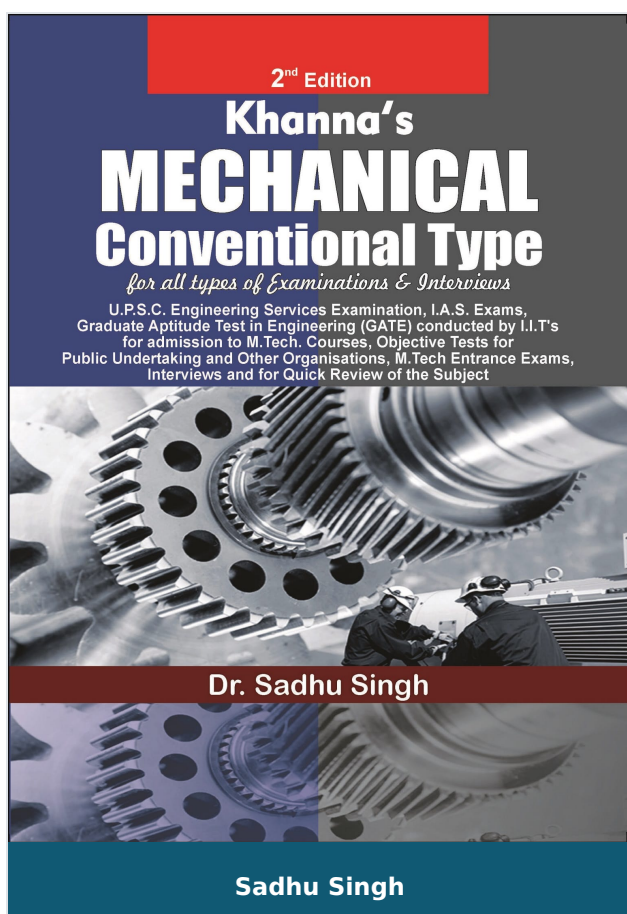
- Fluid Properties
- Fluid Statics
- Fluid Kinematics
- Fluid Dynamics
- Compressible Fluid Flow
- Viscous Flow
- Flow Through Pipes
- Boundry Layer flow
- Turbulent Flow
- Fluid Measurement
- Dimensional and Model Analysis
- Notches and Weirs
- Flow through Open Channels
- Potential Flow
- Multiple Choice Questions
- Index

Author

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19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Department and Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.



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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for public undertaking and other organizations, M. Tech entrance exams, Interviews and
for quick review of the subject.

Table Of Contents

- Mechanical Engineering Paper I - 1992
- Mechanical Engineering Paper I - 1993
- Mechanical Engineering Paper I - 1994
- Mechanical Engineering Paper I - 1995
- Mechanical Engineering Paper I - 1996
- Mechanical Engineering Paper I - 1997
- Mechanical Engineering Paper I - 1998
- Mechanical Engineering Paper I - 1999
- Mechanical Engineering Paper I - 2000
- Mechanical Engineering Paper I - 2001
- Mechanical Engineering Paper I - 2002
- Mechanical Engineering Paper I - 2003
- Mechanical Engineering Paper I - 2004
- Mechanical Engineering Paper I - 2005
- Mechanical Engineering Paper I - 2006
- Mechanical Engineering Paper I - 2007
- Mechanical Engineering Paper I - 2008
- Mechanical Engineering Paper I - 2009
- Mechanical Engineering Paper I - 2010
- Mechanical Engineering Paper I - 2011
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- Mechanical Engineering Paper II- 1993

- Mechanical Engineering Paper II - 1994
- Mechanical Engineering Paper II - 1995
- Mechanical Engineering Paper II - 1996
- Mechanical Engineering Paper II - 1997
- Mechanical Engineering Paper II- 1998
- Mechanical Engineering Paper II - 1999
- Mechanical Engineering Paper II - 2000
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- Mechanical Engineering Paper II - 2002
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- Mechanical Engineering Paper II - 2006
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- Mechanical Engineering Paper II - 2008
- Mechanical Engineering Paper II - 2009
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- Mechanical Engineering Paper I - 2013
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