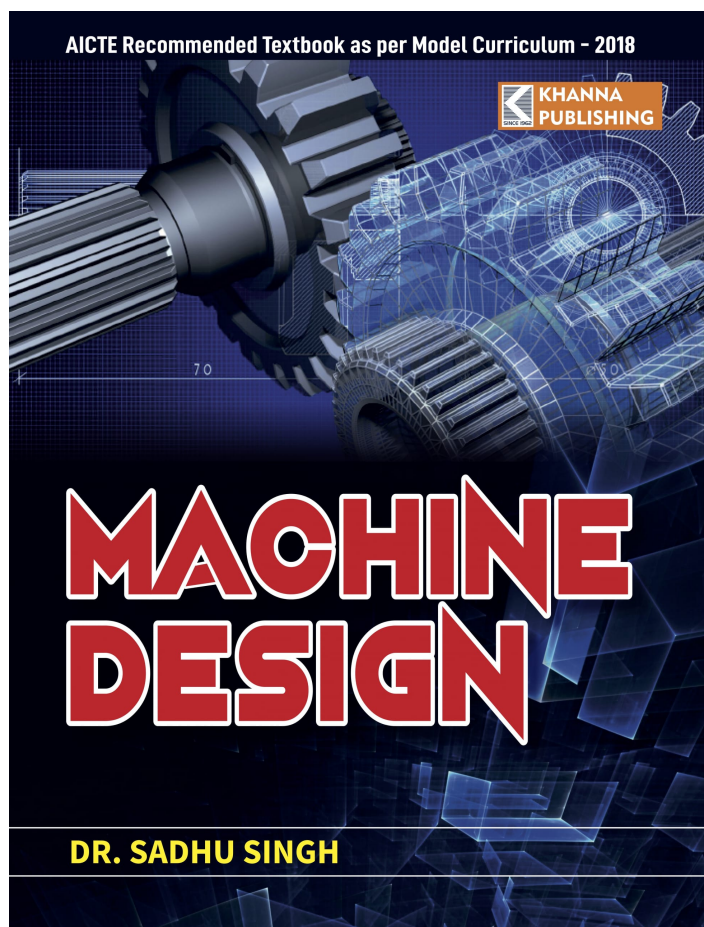




Machine Design

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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.



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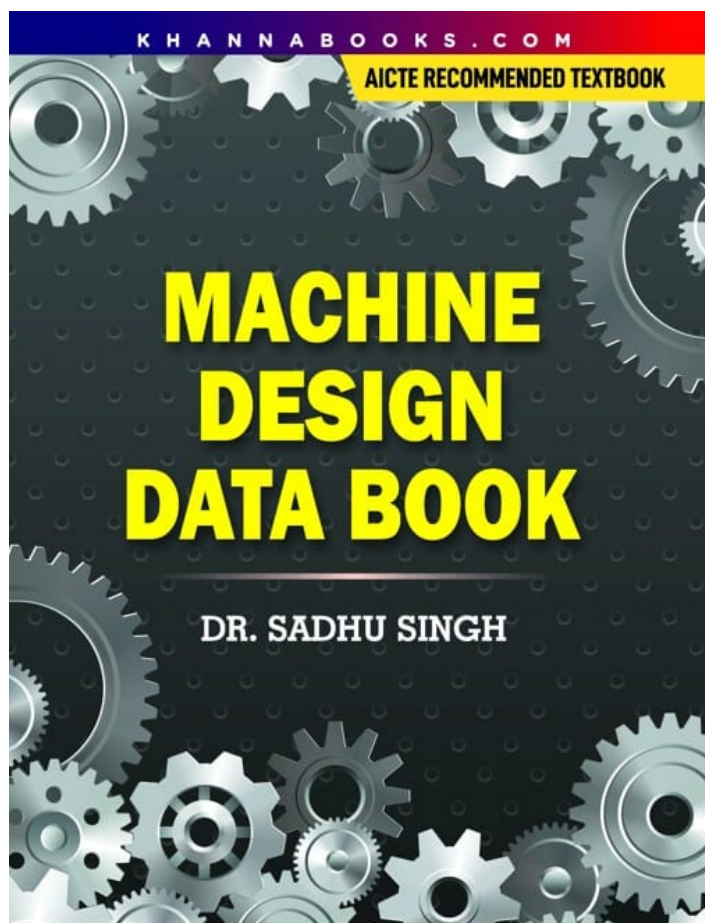
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Chapter 1: Engineering Design. **Chapter 2:** Selection of Engineering Materials. **Chapter 3:** Design for Static Load. **Chapter 4:** Design for Variable Load. **Chapter 5:** Riveted Joints. **Chapter 6:** Welded Joints. **Chapter 7:** Screwed Joints. **Chapter 8:** Power Screws. **Chapter 9:** Transmission Shafts. **Chapter 10:** Keys and Couplings. **Chapter 11:** Levers. **Chapter 12:** Cotter and Knuckle-Joints. **Chapter 13:** Pine Joints. **Chapter 14:** Mechanical Springs. **Chapter 15:** Flat & V-Belts. **Chapter 16:** Chains and Ropes. **Chapter 17:** Spur Gears. **Chapter 18:** Helical Gears. **Chapter 19:** Bevel Gears. **Chapter 20:** Worm Gears. **Chapter 21:** Siding Bearings. **Chapter 22:** Rolling Contact Bearings. **Chapter 23:** Flywheel. **Chapter 24:** Clutches and Brakes. **Chapter 25:** Internal Combustion Engine Parts. **Chapter 26:** Lubrication in Transmission System. **Multi-Choice Questions**

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.





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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.



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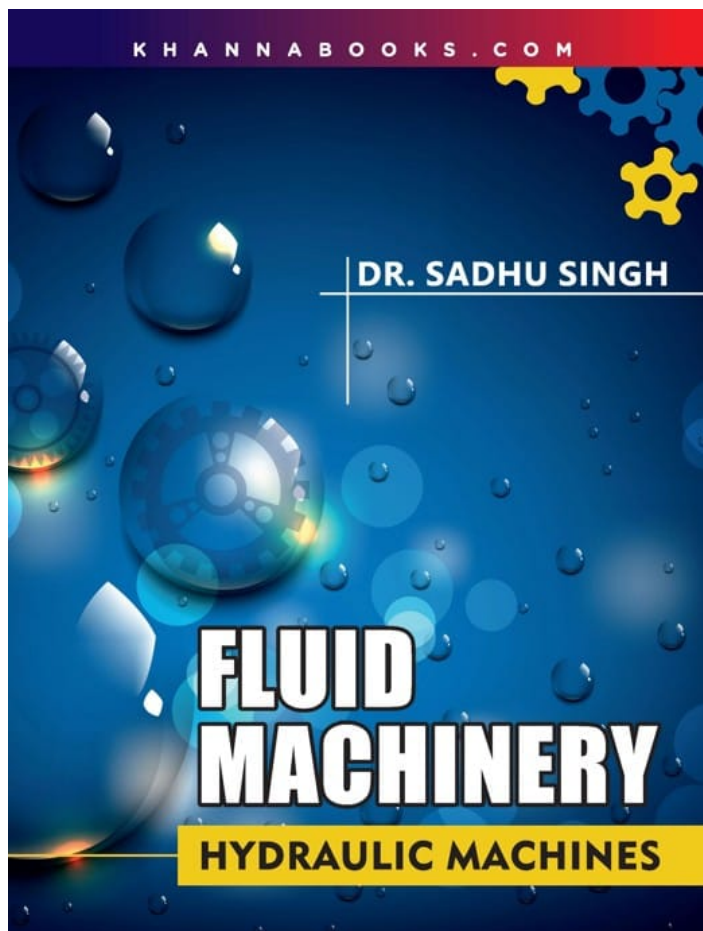
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Fluid Machinery (Hydraulic Machines)

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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: summary, Review Question, Multi-choice Questions and end of chapter numerical problems.



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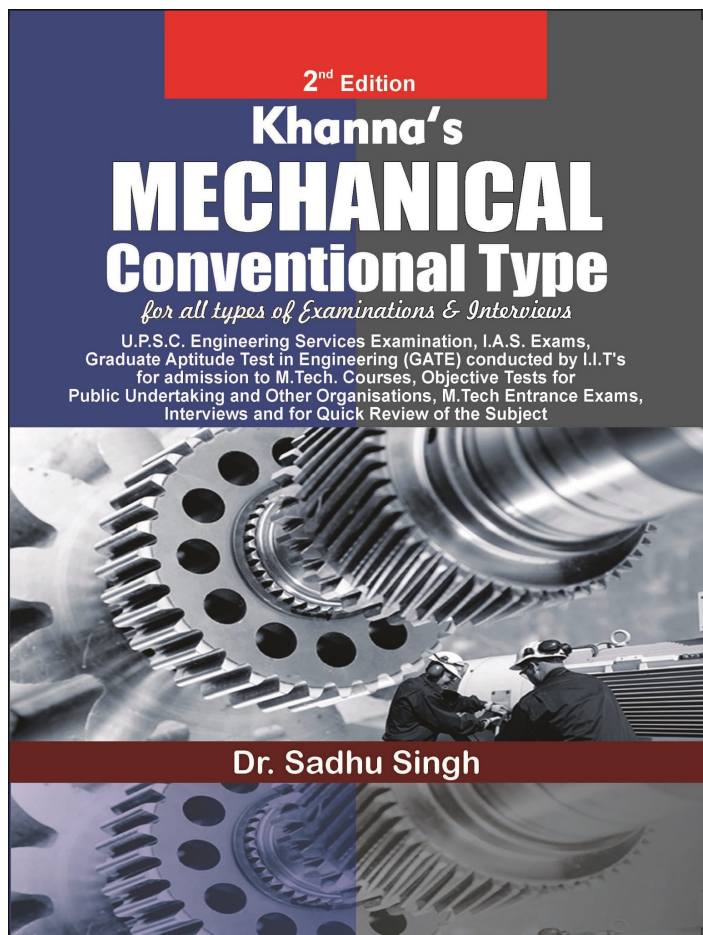
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Author

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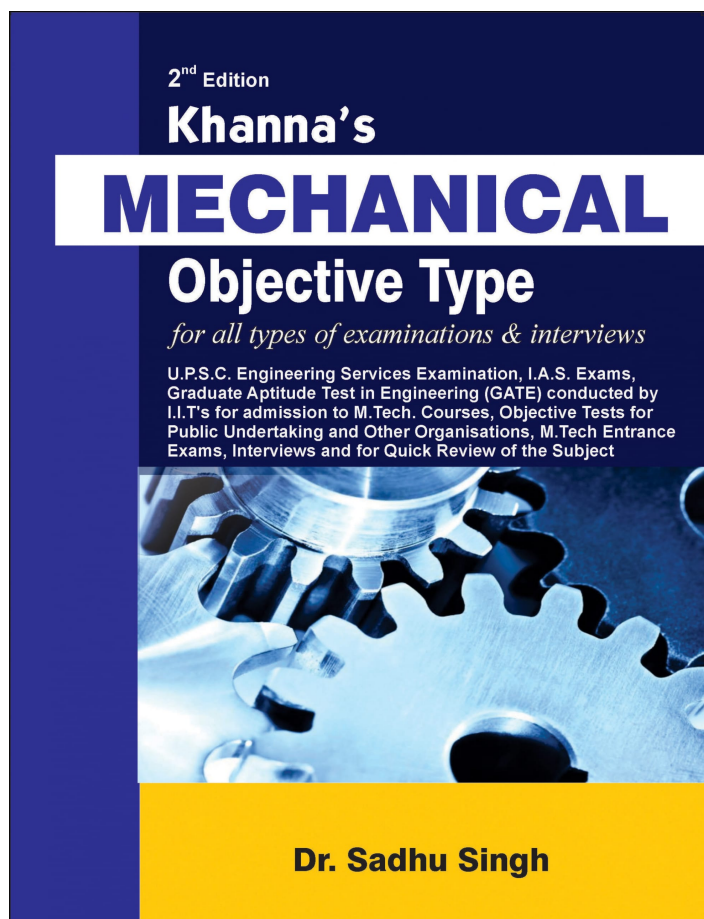
- Chapter 1:** Mechanical Engineering Paper I - 1992.
- Chapter 2:** Mechanical Engineering Paper I - 1993.
- Chapter 3:** Mechanical Engineering Paper I - 1994.
- Chapter 4:** Mechanical Engineering Paper I - 1995.
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- Chapter 24:** Mechanical Engineering Paper II - 1994.
- Chapter 25:** Mechanical Engineering Paper II - 1995.
- Chapter 26:** Mechanical Engineering Paper II - 1996.
- Chapter 27:** Mechanical Engineering Paper II - 1997.



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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.





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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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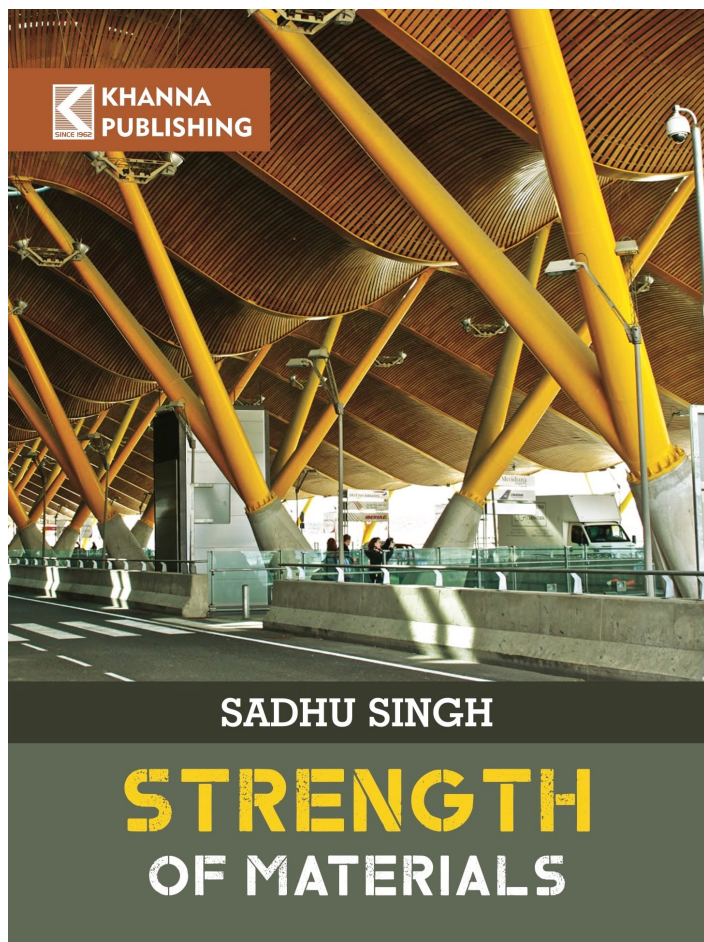
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Author

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





Strength of Materials

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This book is a textbook for the B.E./B. Tech. students of UP technical University, Lucknow and Uttarakhand Technical University, Dehradun. The book has been written as per the new syllabus of these Universities. The subject matter has been explained in the simplest possible way for easy assimilation by the students. This has been reinforced by a large number of solved examples. A large number of solved examples, short answer type questions chapter wise. Unsolved end-of chapter exercises.

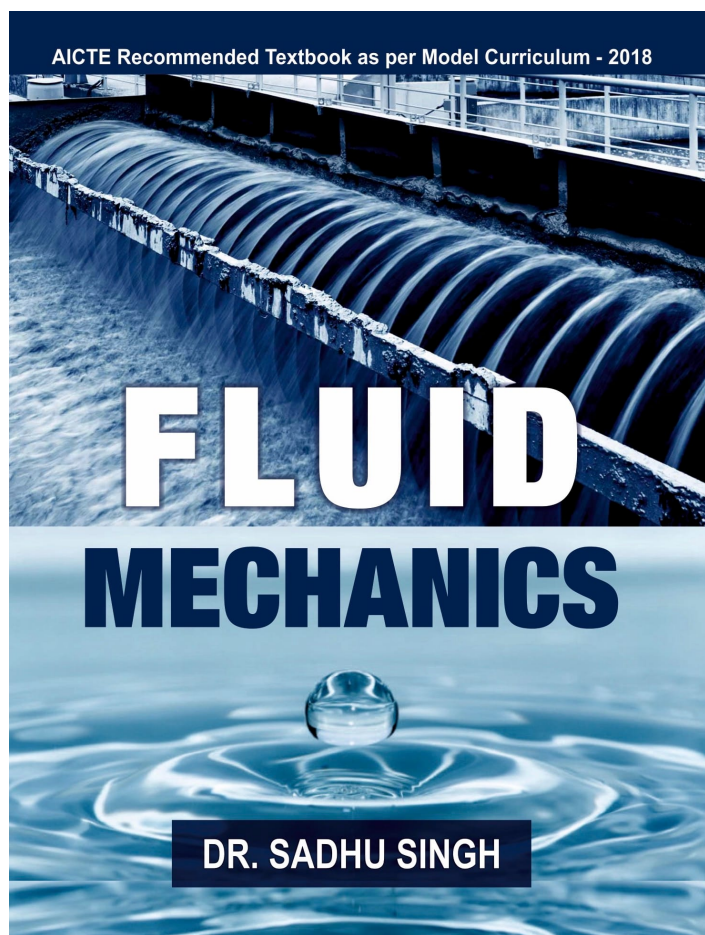
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Chapter 1: Compound Stresses and Strains. **Chapter 2:** Theories of Failure. **Chapter 3:** Three Dimensional Stresses and Strains. **Chapter 4:** Stresses in Beams. **Chapter 5:** Deflection of Beams. **Chapter 6:** Fixed and Continuous Beams. **Chapter 7:** Torsion of Shafts. **Chapter 8:** Columns and Struts. **Chapter 9:** Helical and Leaf Springs. **Chapter 10:** Thin Cylinders and Spheres. **Chapter 11:** Thick Cylinders and Spheres. **Chapter 12:** Rotating Discs and Cylinders. **Chapter 13:** Curved Beams. **Chapter 14:** Unsymmetrical Bending. **Appendix -I Appendix-II**

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.





Fluid Mechanics

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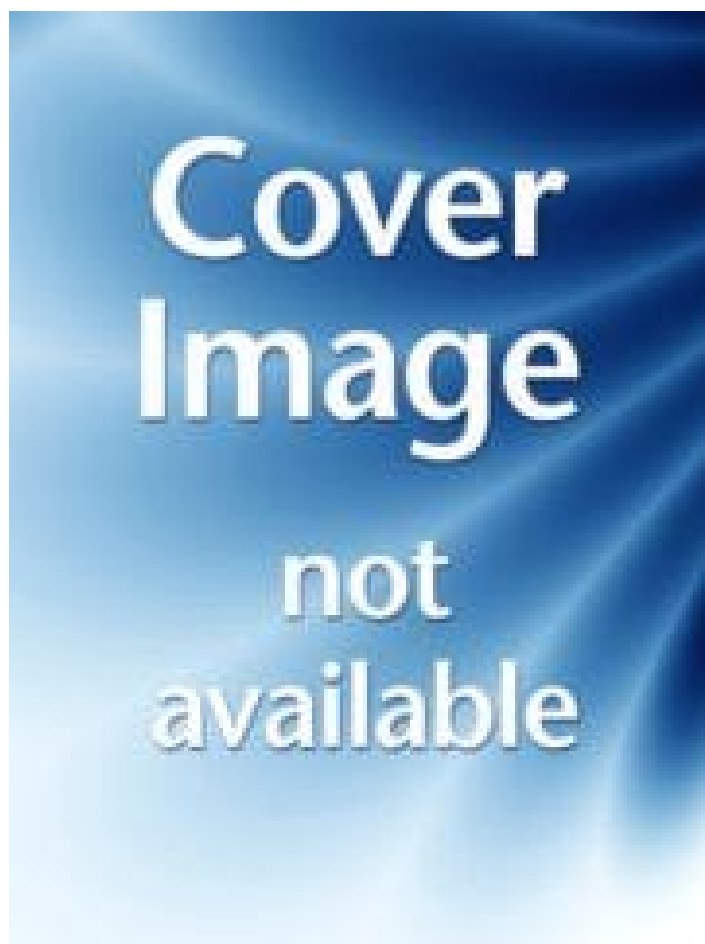
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Chapter 1: Fluid Properties. **Chapter 2:** Fluid Statics. **Chapter 3:** Fluid Kinematics. **Chapter 4:** Fluid Dynamics. **Chapter 5:** Compressible Fluid Flow. **Chapter 6:** Viscous Flow. **Chapter 7:** Flow Through Pipes. **Chapter 8:** Boundary Layer flow. **Chapter 9:** Turbulent Flow. **Chapter 10:** Fluid Measurement. **Chapter 11:** Dimensional and Model Analysis. **Chapter 12:** Notches and Weirs. **Chapter 13:** Flow through Open Channels. **Chapter 14:** Potential Flow. **Multiple Choice Questions 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.





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

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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.




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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 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.



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- Chapter 2:** Fundamentals of Refrigeration.
- Chapter 3:** Air Refrigeration Cycles.
- Chapter 4:** Aircraft Refrigeration Systems.
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- Chapter 6:** Multi-Stage Vapour Compression Systems..
- Chapter 7:** Vapour Absorption Refrigeration Systems.
- Chapter 8:** Refrigerants.
- Chapter 9:** Refrigeration Equipment.
- Chapter 10:** Cryogenics.
- Chapter 11:** Steam Jet Refrigeration.
- Chapter 12:** Psychrometry.
- Chapter 13:** Comfort Air-Conditioning.
- Chapter 14:** Cooling and Heating Load Estimation.
- Chapter 15:** Ducts Design.
- Chapter 16:** Fans.
- Chapter 17:** Applications of Refrigeration And Air-Conditioning.

Author

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.

