

## Fluid Machinery (Hydraulic Machines)

<b>Author :</b>	Sadhu Singh
<b>ISBN 13 :</b>	978-93-82609-28-5
<b>ISBN 10 :</b>	93-82609-28-8
<b>E-ISBN 13 :</b>	978-93-82609-28-5
<b>Edition :</b>	1
<b>Pages :</b>	480
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	617.00
<b>Year :</b>	2025
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>Regular Price :</b>	Rs 475.00
<b>Sale Price :</b>	Rs 380.00
<b>Categories :</b>	<a href="#">All books</a> , <a href="#">Mechanical Engineering</a> , <a href="#">UNIVERSITY RECOMMENDED</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

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Chapter 1: Basic Concepts of Fluid Machinery Chapter 2: Whirling of Fluids Chapter 3: Hydro Power Generation Fundamentals Chapter 4: Unit and Specific Quantities Chapter 5: Pelton Turbine Chapter 6: Francis Turbine Chapter 7: Kaplan Turbine Chapter 8: Draft Tube and Cavitation Chapter 9: Governing, Selection and Performance of Hydraulic Turbines Chapter 10: Reciprocating Pumps Chapter 11: Centrifugal Pump Chapter 12: Fluid Devices and Systems Chapter 13: Fluid Laboratory Practice Chapter 14: Conventional Questions From IES Chapter 15: Multi-Choice Questions From IES Subject Index

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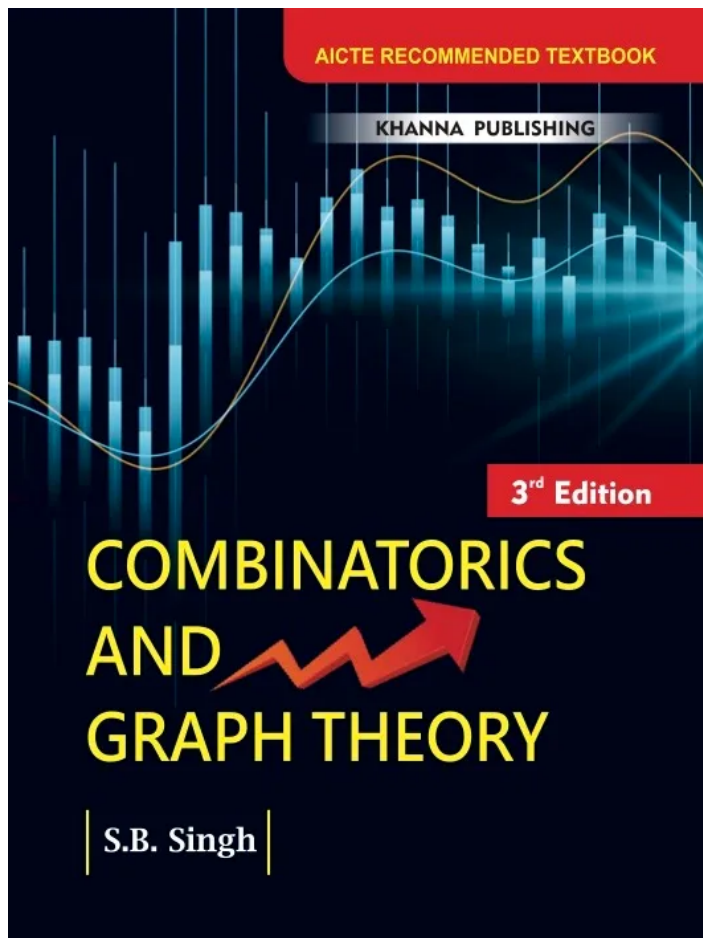
## Author

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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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## Combinatorics and Graph Theory

<b>Author :</b>	S.B. Singh
<b>ISBN 13 :</b>	978-81-90645-10-2
<b>ISBN 10 :</b>	81-90645-10-2
<b>E-ISBN 13 :</b>	978-81-90645-10-2
<b>Edition :</b>	Third
<b>Pages :</b>	480
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	635.00
<b>Year :</b>	2022
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>Regular Price :</b>	Rs 425.00
<b>Sale Price :</b>	Rs 340.00
<b>Categories :</b>	<a href="#">All books</a> , <a href="#">Computer Science</a> , <a href="#">Engineering</a> , <a href="#">Engineering Mathematics</a> , <a href="#">UNIVERSITY RECOMMENDED</a>
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Extremely well organized and lucidly written book. Suitable textbook for the students of B.C.A., B.Sc.,(IT), B. Tech., M.C.A., M.Sc. More than 425 worked out problems with full solution. Around 400 problems of various levels of difficulty in exercises to review the understanding and testing the skills of the students. Topics are followed by figures. In total more than 760 figures are taken to back the understanding of topics.



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Chapter 1: Combinatorics Chapter 2: Graph Theory Chapter 3: Trees Chapter 4: Planar Graph Chapter 5: Matrix Representation of Graphs Chapter 6: Colourings Chapter 7: Directed Graph Chapter 8: Enumeration Chapter 9: Application of Graph in Computer Science Chapter 10: Miscellaneous Examples Appendix Index

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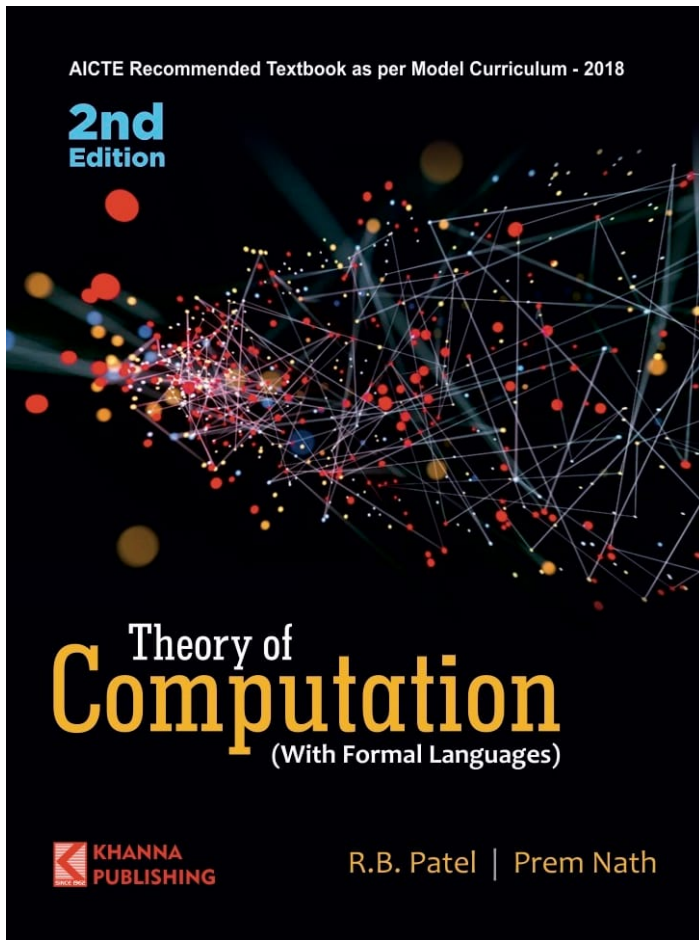
## Author

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**S.B. Singh** Dr. S.B. Singh is an Associate Professor in the Deptt. Of Mathematics Statistics and Computer Sc., G.B. Pant University of Agri. & Tech., Pantnagar. He has around thirteen years of teaching experience at different Engineering Colleges and University. He has authored and co-authored seven more books. he has been conferred with four national awards.

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## Theory of Computation (With Formal Languages)

<b>Author :</b>	Prem Nath
<b>ISBN 13 :</b>	978-93-80016-52-8
<b>ISBN 10 :</b>	93-80016-52-2
<b>E-ISBN 13 :</b>	978-93-80016-52-8
<b>Edition :</b>	2
<b>Pages :</b>	480
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	627.00
<b>Year :</b>	2020
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>Regular Price :</b>	Rs 399.00
<b>Sale Price :</b>	Rs 319.20
<b>Categories :</b>	<a href="#">All books</a> , <a href="#">Computer Science Engineering</a> , <a href="#">Computer Science Engineering</a> , <a href="#">UNIVERSITY RECOMMENDED</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

This book has very simple and practical approach to make the understood the concept of automata theory and languages well. There are many solved descriptive problems and objective (multiple choices) questions, which is a unique feature of this book. The multiple choice questions provide a very good platform for the readers to prepare for various competitive exams.



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Chapter 1: Preliminaries Used in Theory of Computation Chapter 2: Introduction to Finite Automata Chapter 3: Finite State Machines (Transducers) Chapter 4: Grammars and Languages Chapter 5: Regular Expressions, Regular Languages and Finite Automata Chapter 6: Context-free Grammars and Languages Chapter 7: Pushdown Automata and Parsing Techniques Chapter 8: Turing Machine Chapter 9: Computability and Recognizability of Turing Machine Chapter 10: Decidability and Undecidability Chapter 11: Introduction to Computational Complexity

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## Author

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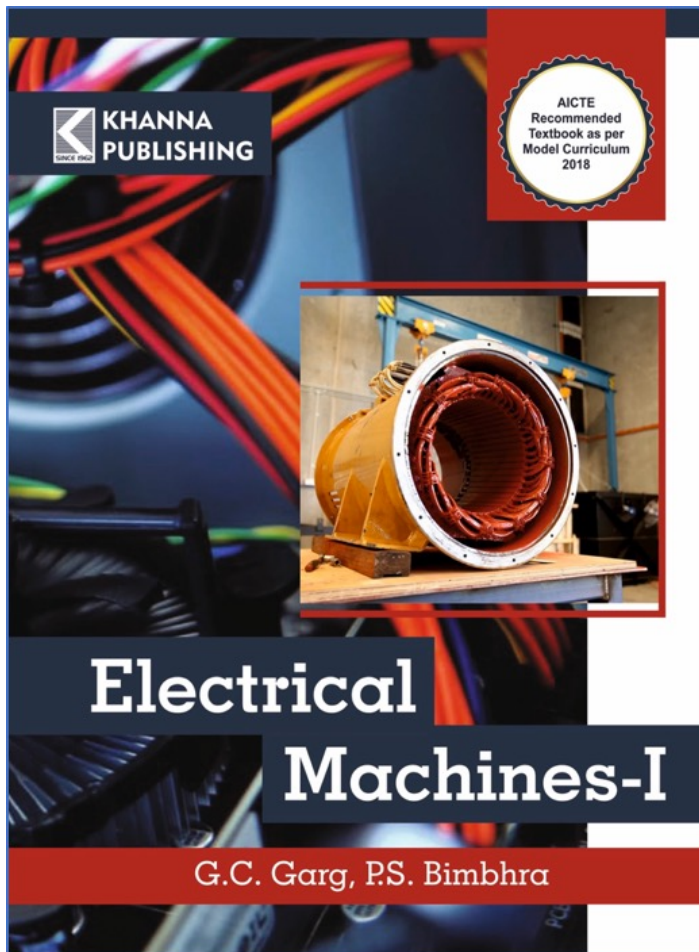
### R.B. Patel

Prof. Ram Bahadur Patel, Professor, Department of Computer Science and Engineering, Chandigarh College of Engineering and Technology, U. T. Administration Chandigarh, earlier he was Professor at NIT Uttarakhand, graduated from Madan Mohan Malaviya Engineering College Gorakhpur in Computer Engineering in the year 1991. He did M.S. from BITS Pilani in the year 1996. He obtained his Ph.D. from the Indian Institute of Technology, Roorkee in the field of Distributed Computing and PDF in Reliable Computing from Athens Greece in the year 2005. He has supervised 18 PhD thesis and 42 M. Tech. dissertation. He has 4 Patents (1 US and 3 Indian) to his credit. He has published more than 190 research paper in International/National Journals and Conferences. He has organized 7 International Conferences/Seminars. He has edited 5 Scopus indexed Journal/Proceedings of National and International publishers, viz. Springer Verlag, American Institute of Physics etc. He has authored 7 Books on Data Structures, Automata Theory, etc.

**Prem Nath** Prem Nath has completed his B.E. (Computer Science and Engineering) from G.B. Pant Engineering College (H.N.B. garwal University)- Uttrakhand in 2000. He has worked in AICTE approved Engineering Colleges at Dehradun and Roorkee for 3 years. At present, he is working as Examiner of patents and Designs at the Patent Office, Kolkata. His work is to examine the patent Applications for which patent is to be ascertained in the field of Computer Science and Technology (Indian patent Act 1970 as amended in 2005). In brief, his work is based on examination of technical advancement as well as the legal aspect (The patent Act 1970 as amended in 2005). He has attended training at the Japan patent office, Tokyo, Japan in the field of "Computer programs" in Year 2007 sponsored by World Intellectual property organization (WIPO), also attended training time to time arranged by Patent Offices in Collaboration with many foreign bodies like, European patent Office (EPO), US patent and Trade marks office (USPTO), etc.

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## Electrical Machines - I

**Author :** G.C. Garg

**ISBN 13 :** 978-93-86173-44-7

**ISBN 10 :** 93-86173-44-1

**E-ISBN 13 :** 978-93-86173-44-7

**Edition :** First

**Pages :** 480

**Type of book :** Paperback

**Year :** 2021

**Language :** English

**Publisher :** Khanna Publishing House

**Regular Price :** Rs 399.00

**Sale Price :** Rs 319.20

**Categories :** [All books](#), [Electrical](#), [Electronics & Communication Engineering](#), [Electrical, Electronics & Communication Engineering](#), [UNIVERSITY RECOMMENDED](#)

**Condition Type :** New

**Country Origin :** India

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## Product Description

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This book is written so that it serves as a text book for B.E./B.Tech degree students in general and for the institutions where AICTE model curriculum has been adopted. TOPICS COVERED IN THIS BOOK:-

- Magnetic field and Magnetic circuit
- Electromagnetic force and torque
- D.C. Machines
- D.C. Machines-Motoring and Generation

SALIENT FEATURES:-

- Self-contained, self-explanatory and simple to follow text.
- Numerous worked out examples.
- Well Explained theory parts with illustrations.
- Exercises, objective type question with answers at the end of each chapter.

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Chapter-1: Magnetic Fields and Magnetic Circuits Chapter-2: Electromagnetic Force and Torque Chapter-3: The Direct Current Machines Chapter-4: DC Machine-Motoring and Generation Chapter-5: Transformers





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## Author

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### **P.S. Bimbhra**

Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives.

### **G.C. Garg**

Prof. G.C. Garg retired as registrar from the Technical Education Department Haryana, Chandigarh. Before that he was Head of Deptt. In Electrical Engineering at Govt. Institution of Engineering Ambala City, Haryana. After Graduation in Electrical Engineering he has gone 2½ years regular advance course in Electrical Engineering with specialization of Electrical Machines in T.T.T.I. Chandigarh in collaboration with Netherlands Govt. under the guidance of Prof. B. Mone who was authority in Electrical Machines and Electrical Power. He has also undergone one and a half year Industrial/Power Projects/Field and Transmission & Distribution Power Stations. He is fellow of the Institution of Engineers (India). </p>

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