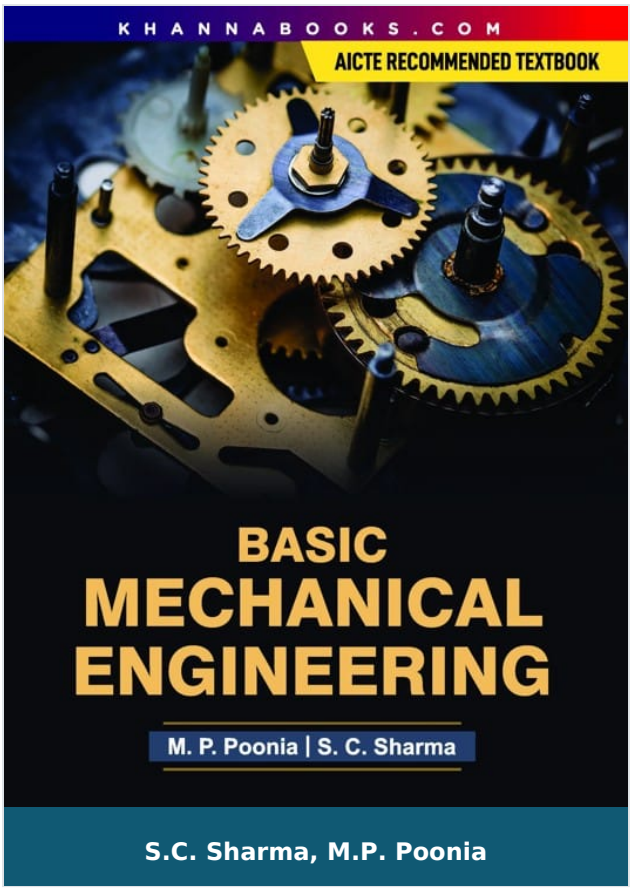

Basic Mechanical Engineering

Author :	S.C. Sharma, M.P. Poonia
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Product Description

This book 'Basic Mechanical Engineering' has been written to provide knowledge and insight into various aspects of Mechanical Engineering. This book is intended as text book to be used by the students in the technical institutions i.e. Engineering Colleges and Polytechnics. The book covers Syllabi of various Universities on 'Basic Mechanical Engineering', 'Elements of Mechanical Engineering', 'Mechanical Engineering', 'Introduction to Mechanical Engineering' and 'Fundamentals of Mechanical Engineering' for the students of all the disciplines of Engineering.

Adequate attention has been paid to emphasize on basic principles involved in the subject matter. The explanation in the text has been supported with line diagrams, along with numerous solved problems.

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- Thermal Power Plants 2-Steam Engines, Turbines And Condenser
- Air Compressors
- Internal Combustion Engines (I.C Engines)
- Fuel System in I.C Engines
- Automobile Engineering
- Gas Turbines
- Refrigeration and Air Conditioning
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- Robotics
- Appendices
- Index

Author

S.C. Sharma

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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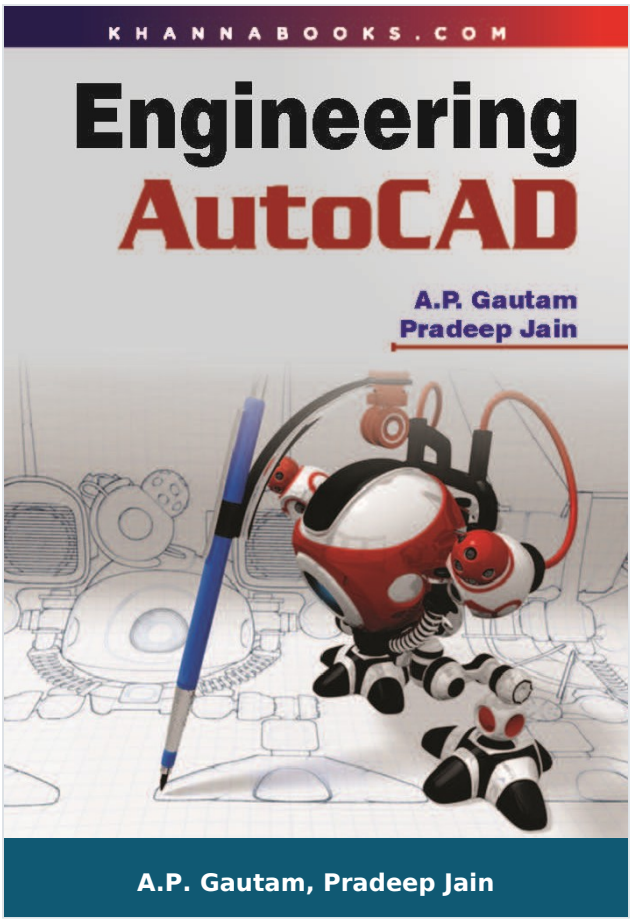

Engineering AutoCAD

Author :	A.P. Gautam, Pradeep Jain
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Product Description

The books is useful for the students of B. Tech and diploma in Mechanical, Civil and B. Architect, and for the industrial persons to enhance their designing skills. This book is simple to understand included exercises and tutorials. For better understanding. objective-type questions and practice have been included at the end.

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- Three Dimension Tool
- Page Setup & Plot Manager

Author

A.P. Gautam

A.P. Gautam AP Gautam has more than five year of experience in teaching and industry. He is also providing solutions in engineering design. Presently he is working in HI Tech Institute of Engineering Technology.

Pradeep Jain

Pradeep Jain has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field.

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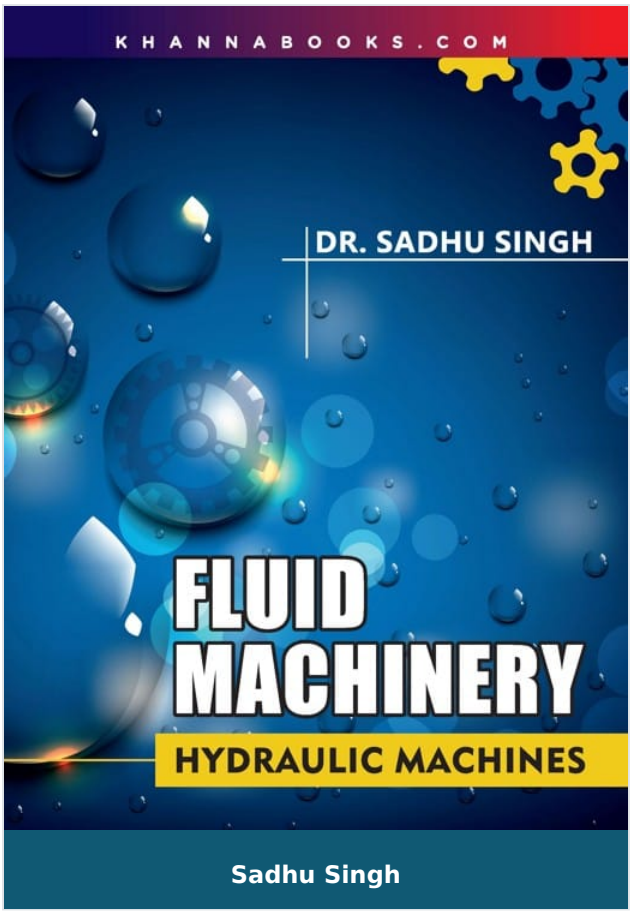

Fluid Machinery (Hydraulic Machines)

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- Francis Turbine
- Kaplan Turbine
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- 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

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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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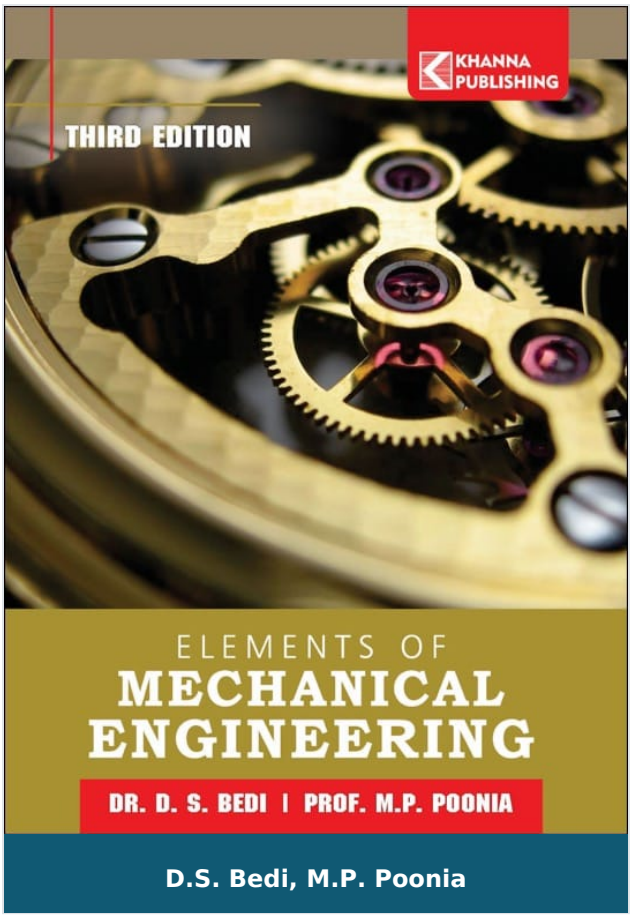

Elements of Mechanical Engineering

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Product Description

The subject 'Elements of Mechanical Engineering' embraces 3 different fields of Mechanical Engineering, namely Thermodynamics, Strength of Materials and Theory of Machines.

The book is written in simple and easy to understand language. The authors have ingeniously brought in situations encountered by common man in his day-to-day life, so as to generate interest in the reader for the subject which otherwise leaves him high and dry.

In addition to this, every topic is supplemented with large no. of solved examples (more than 300 examples) which deals with every possible situation. At the end of each chapter, review questions have been added so that the students are made conversant with the type of compulsory questions they have to face in university exam. These are also followed by large no. of model problems.

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- Concept of Mechanical Behavior of Engineering Materials
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- Engineering Materials
- Centroid, Centre of Gravity, Second Movement of Area and Mass Movement of Inertia
- Index

Author

D.S. Bedi

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-

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cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab.

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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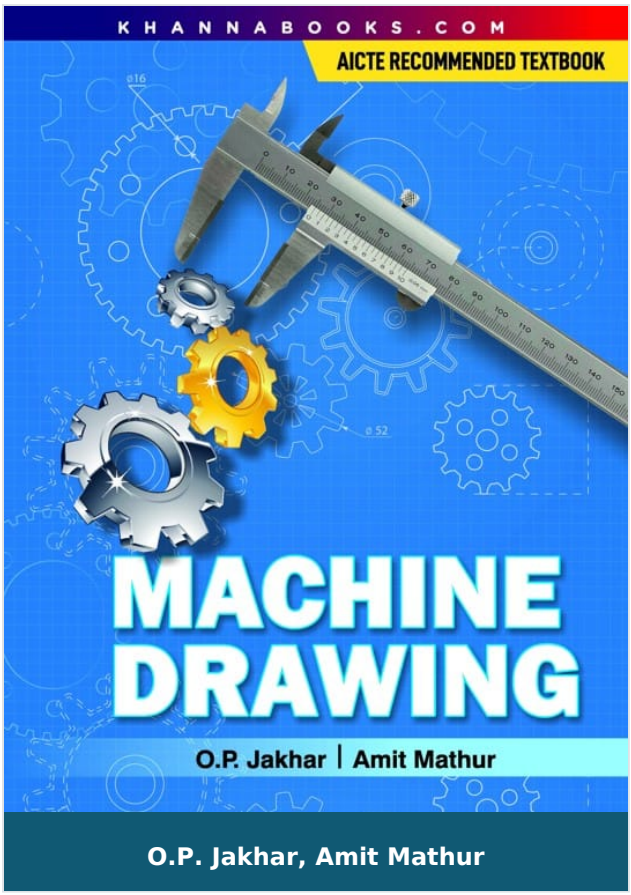

Machine Drawing

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Product Description

This book is Designed for the students of Engineering and Technology as well as specially for Mechanical Engineering Degree and Diploma students. The teaching of this course faces difficulty in explaining the various concept of machine drawing viz., orthographical projection, sectioning, complicated mechanical assembly drawing etc. Sometimes explanation requires some three dimensional and complicated drawing to be drawn on the black board which is quite impossible due to the time constraint of class.

This book is an outcome of the strong need felt by students offering the course and the teaching need felt by us. The teacher can explain the related concepts, drawing methods and uses of various parts being drawn etc. in each practical class without bothering the black board.

The subject matter has been compressed from the view point of Mechanical Engineering students.

The book also contains Basic Drawing Softwares which describes about the basics of Auto-CAD, CATIA, PROE, ANSYS etc. which is useful for today's need of Engineering & Technology.

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- Screw Threads and Fasteners
- Bearings & Shaft Coupling
- Assembly Drawing
- Power Transmission Drives
- Basics Drawing Softwares

Author

O.P. Jakhar

Dr. O.P. Jakhar got commissioned as Lieutenant in NCC in 2005 and presently he is serving as Captain at 7 Raj. BN. NCC, Bikaner.

Amit Mathur

Amit Mathur 1- Amit Mathur is presently Assistant Professor & Head in the Department of Mechanical Engineering at Govt. College of Engineering & Technology, Bikaner. He has done B.E. (Mechanical Engineering) from Govt. Engineering College, Ajmer and M.E. (Manufacturing Technology) from NITTTR, Chandigarh. He has an experience of more than 10 years in the field of Teaching & Research. He has published more than 06 papers in National Conference Proceedings & Journals. He is also an Associated member of Institution of Engineers. India.

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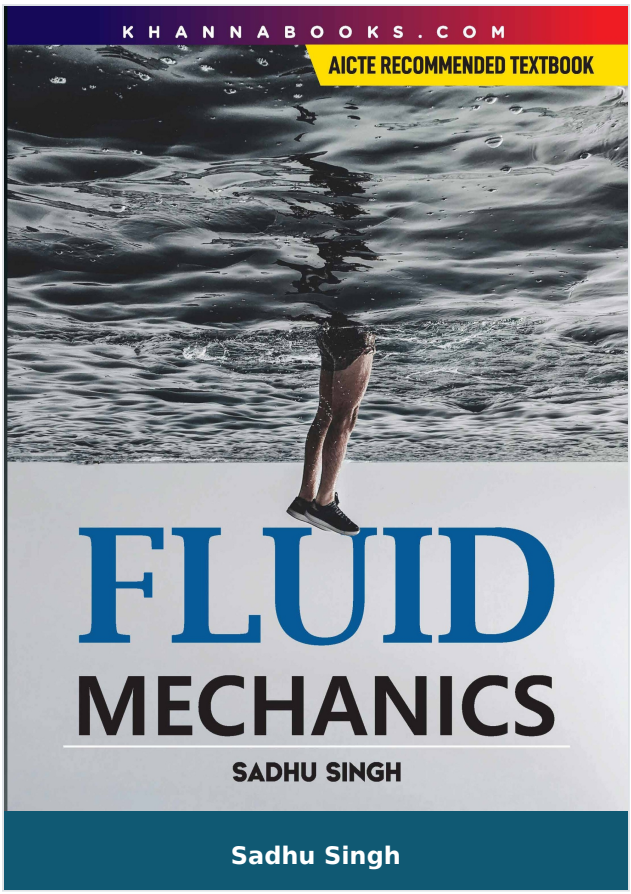

Fluid Mechanics | AICTE Recommended Textbook

Author :	Sadhu Singh
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- Fluid Measurement
- Dimensional and Model Analysis
- Notches and Weirs
- Flow through Open Channels
- 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

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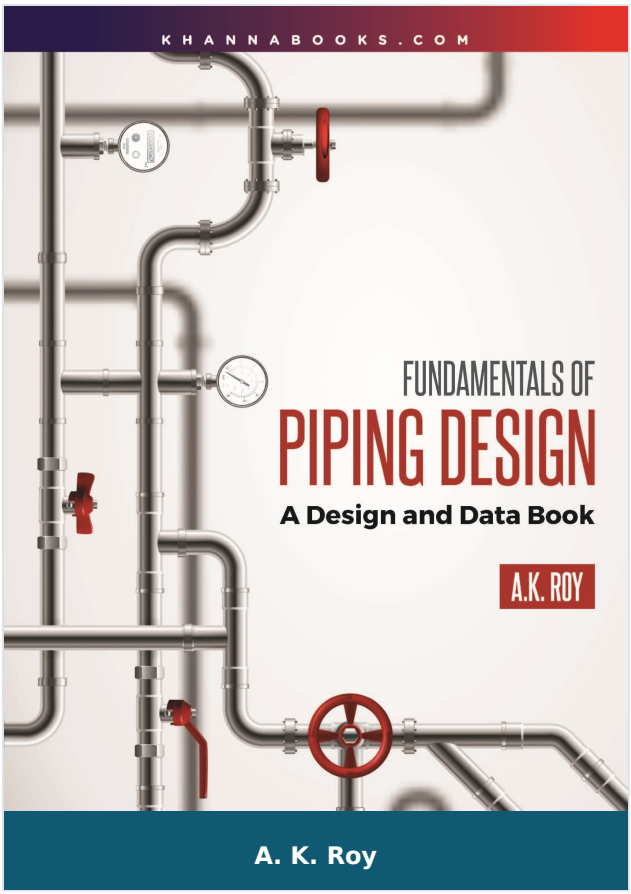

Fundamentals of Piping Design (A Design and Data Book)

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Product Description

This book offers a comprehensive introduction to the design of piping systems for professional engineers. It explains the fundamentals of piping design along with essential data and practical guidelines in a clear, accessible manner. Covering material selection, layout development, stress analysis, and computer-aided design, the book draws from international standards such as ASME, ASTM, IS, and BS. It balances theory with real-world application, featuring detailed illustrations and a case study using software tools, making it a valuable reference across industries like power, oil & gas, waterworks, and chemicals processing.

SALIENT FEATURES OF THE BOOK

- Provides essential design knowledge for piping systems across industries.
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- Contains a detailed case study on pipe stress analysis using computer-based software.
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- Pipe Hydraulics and Sizing
- Selection of Pipe Supports
- Pipe Stress Analysis
- Expansion Joints
- Annexure
- Appendix
- References

Author

A. K. Roy

K. Roy (BE, M.Tech. , FIE) is a seasoned engineering professional with over 37 years if experience at Steel Authority of India Limited (SAIL). He held senior positions including General Manager in the Centre for Engineering & technology (CET), where he led design, engineering, and consultancy services in utilities and services. He also contributed

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significantly as a research Engineering, and consultancy services in development Centre for Iron & Steel (RDCIS), SAIL, Shri Roy retired as general manager from CET and resides in Kolkata.

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