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# Recommended Books for GATE Mechanical Engineering (ME) 2019

GATE Exam is a big opportunity for you to get admitted in a leading college of the country. Also, clearing GATE 2019 will open new entry-doors for you if you are looking for a job in PSUs. However, good things don't come easy! You need to put a lot of hard work, dedication and focus to succeed in [GATE](#) Exam. To get started with your preparation, the first thing you need is the [Complete GATE Syllabus](#). Once you know what topics you need to cover, refer to this List of **Best Books for GATE Mechanical Engineering (ME)**. To prepare for your GATE ME exam, you should constantly refer the books mentioned below.

It is important to have a good preparation strategy. A sound strategy would include:

- learning theory
- building concepts
- taking tests and
- analyzing your performance.

This list of **Must-Read Books for GATE Mechanical Engineering** will boost your preparation. Moreover, you can also download this list of GATE Books for Mechanical Engineering (ME) 2019 as PDF.

## Best Books for GATE Mechanical Engineering (ME) 2019

It is very important to select the books which are worth spending time. Selection of books will help you to fetch good marks. Moreover, this list of Books for GATE Mechanical 2019 has been compiled by experts.



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Topics	Books	Authors
Engineering Mechanics	Engg. Mechanics	R.K Rajput
	Engg. Mechanics	Beer & Johnston
	Engg. Mechanics	U.C. Jindal
Strength of Materials	Mechanics of Material	Gere & GOODno
	Mechanics of Materials	B. C. Punmia
Theory of Machine	Theory of Mechanisms and Machines	A. Ghosh & A. K. Mallik
Mechanical Vibrations	Mechanical vibrations	G. K. Grover
Machine Design	Design of Machine Elements	V. B. Bhandari
Fluid Mechanics	A Textbook of Fluid Mechanics	R. K. Bansal
	Fluid Mechanics –Fundamentals & Applications	Cengel & Cimbala
Heat Transfer	Fundamentals of Engg. Heat and Mass Transfer	R. C. Sachdeva
	Heat Transfer 10th revised Edition	J. P. Holman
Engineering Thermodynamics	Engineering Thermodynamics	P. K. Nag
Application of Thermodynamics	Power Plant Engineering	P. K. Nag
	Internal Combustion Engines	V. Ganesan

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	Internal Combustion Engines	M. L. Mathur & R. P. Sharma
	Refrigeration And Air Conditioning	C. P. Arora
	A Textbook of Fluid Mechanics and Hydraulic Machines	R. K. Bansal
Production Engineering	Manufacturing Science	A. Ghosh & A. K. Mallik
	Manufacturing Engineering and Technology	Kalpakjian
Industrial Engineering	Modern Production/ Operations Management	Buffa and Sarin
Operational Research	Operation Research	Kanti Swarup

## Details about Books for GATE Mechanical Engineering

### 1. Engineering Mechanics

- **Engg. Mechanics by R. K. Rajput**

This book contains all you need to know about the subject matter in simple and lucid language. It also contains a large number of numerical problems. Therefore, solving these problems will equip you with a set of tools that will prove to be very useful for the exam.

- **Engg. Mechanics by Beer & Johnston**



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This book provides conceptually accurate and thorough coverage of topics along with a significant variety in exercise sets.

- **Engg. Mechanics by U. C. Jindal**

This book has a simple language and a problem-solving approach.

## **2. Strength of Materials**

- **Mechanics of Materials by Gere & GOODno**

This is a conceptual book and has a good number of numerical problems.

- **Mechanics of Materials by B. C. Punmia**

This excellent book contains simple but complete coverage of all the concepts related to the topic. A large number of solved and unsolved examples containing real life problems with solutions helps you develop your ability to apply those basic concepts to practical problems. Hence, this book is very popular among GATE and PSU aspirants.

## **3. Theory of Machine**

- **Theory of Mechanisms and Machines by A. Ghosh & A. K. Mallik**

This book helps you develop the concepts in a fabulous manner and maintains a rigorous approach at the same time. It is perfect for competitive exams like GATE or IES. Therefore, the book consists of several diagrams and questions to understand the concepts better.

## **4. Mechanical Vibrations**

- **Mechanical vibrations by G. K. Grover**



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It is an excellent book with clear concepts which makes the subject interesting for the reader. This book is ideal for the beginners in mechanical vibrations. It is very suitable and reliable for GATE and other competitive exams.

## 5. Machine Design

- **Design of Machine Elements by V. B. Bhandari**

Each chapter is written in a simple, crisp and logical way, explaining the theoretical considerations in the design of machine elements. The language is lucid and easy to understand yet scientific. Moreover, it covers various dimensions of one topic and thus all topics are explained in their entirety.

## 6. Fluid Mechanics

- **A Textbook of Fluid Mechanics by R. K. Bansal**

This book contains a comprehensive treatment of the subject matter in simple, lucid and direct language and envelopes a large number of solved problems properly graded, including typical examples important from the examination point of view.

- **Fluid Mechanics by Cengel & Cimbala**

This is a good book for concept building.

## 7. Heat Transfer

- **Fundamentals of Engg. Heat and Mass Transfer by R. C. Sachdeva**

This book contains adequate theory and problems which are very much useful for GATE preparation. Also, there are a number of real life problems which make the concepts very easy to understand.



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- **Heat Transfer 10th revised Edition by J. P. Holman**

This is the perfect book for beginners to Heat Transfer. There are a large number of solved and unsolved examples which illustrate the theoretical concepts.

## **8. Engineering Thermodynamics**

- **Engineering Thermodynamics by P. K. Nag**

This book contains a nice blend of theory as well as numerical. It also contains some of the best numerical which are tested in various examinations. Hence, it might not be suitable for beginners as some of the numerical can be intimidating. But the book is quite popular among GATE aspirants.

## **9. Applications of Thermodynamics**

### **A. Power Engineering**

- **Power Plant Engineering by P. K. Nag**

This book is a comprehensive and up-to-date offering on the subject. It has detailed coverage on hydroelectric, diesel engine and gas turbine power plants. Moreover, plenty of solved examples, exercise questions and illustrations make this a very student friendly text.

### **B. I. C. Engine**

- **Internal Combustion Engines by V. Ganesan**

The writing is very simple, and all contents are covered. It is considered good for beginners because the language is lucid. It has a detailed description of combustion



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engines that helps in getting a clear understanding of concepts. Hence, this book is essential for candidates studying for mechanical engineering exams.

- **Internal Combustion Engines by M. L. Mathur & R. P. Sharma**

It comprises of a detailed explanation of all the parts that make up an Internal Combustion Engine and summarizes the theory behind their working. The book is quite popular among GATE and IES aspirants.

### **C. Refrigeration and Air – Conditioning**

- **Refrigeration And Air Conditioning by C. P. Arora**

This book has every detail of refrigeration and a little on air conditioning. This book is the ideal text for beginners to refrigeration and air conditioning, but there are not enough problems.

### **D. Turbomachinery**

- **A Textbook of Fluid Mechanics and Hydraulic Machines by R. K. Bansal**

It is a comprehensive book for beginners as it contains simple and easy-to-follow language. There are a large number of theoretical and solved & unsolved numerical problems to brush up your concepts of the subject.

## **10. Production Engineering**

- **Manufacturing Science by A. Ghosh & A. K. Mallik**



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This book contains detailed explanations of the core concepts you need to know for the exam. It is best suited as a theory book for the GATE examination because it has fewer problems.

- **Manufacturing Engineering and Technology by Kalpakjian**

It contains an indispensable text on the subject with emphasis on the practical uses of the concepts and information. Moreover, there are a number of illustrative examples and case studies to highlight important concepts and techniques.

## **11. Industrial Engineering**

- **Modern Production/Operations Management by Buffa and Sarin**

This is a comprehensive book for undergraduate students of Mechanical and Production Engineering. These Books for GATE Mechanical are quite helpful for students preparing for GATE 2019.

## **12. Operation Research**

- **Operation Research by Kanti Swarup**

This book contains a series of questions and solved examples to help you evaluate your strengths and weaknesses and work on them accordingly.

Hence, you will boost up your preparation by choosing the Books for GATE Mechanical Engineering. Moreover, you need to practice General Aptitude & Verbal Reasoning for GATE 2019. You should practice last five to eight years GATE questions in order to prepare well.



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Moreover, you can also read the following articles to get an idea about GATE Exam.

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<b>15 Recommended Books for GATE EC 2019 in PDF</b>	<b>Recommended Books Engineering Mathematics 2019</b>

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