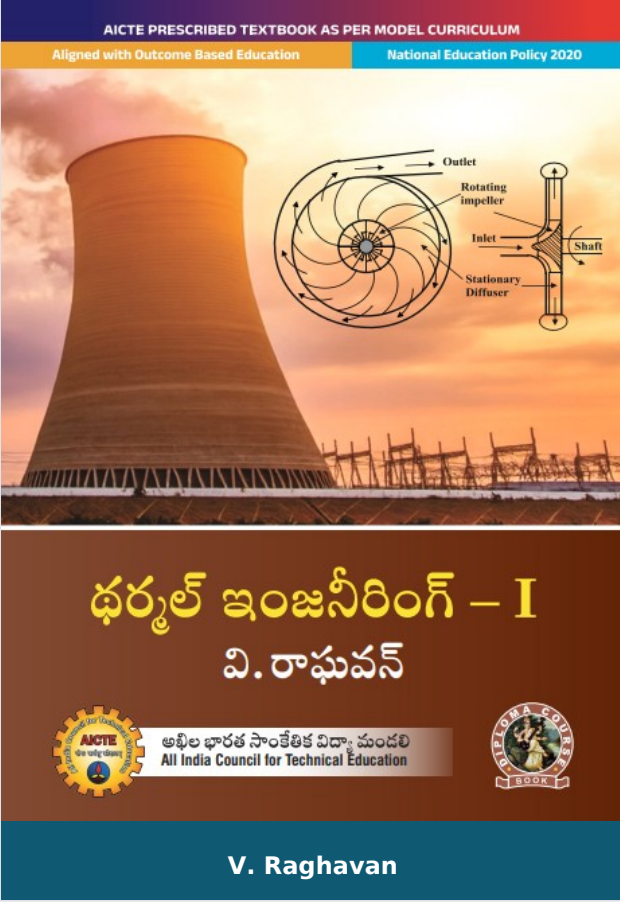




Thermal Engineering - I

Author : V. Raghavan

ISBN 13 : 978-93-55383-47-1

ISBN 10 : 9355383479

E-ISBN 13 : 978-93-55383-47-1

Edition : First

Pages : 268

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 425.00

Categories : [AICTE Prescribed Textbooks,](#)
[Telugu Books, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

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This book introduces various energy sources; fossil and renewable fuels, their properties, followed by other non-conventional sources such as nuclear and fuel cells. It discusses the types of heat engines; diesel engine, petrol engine, their working principle, components and standard thermodynamic cycles. The book provides insights of various system and IC engines such as fuel injection system, ignition system, lubricating system and also briefly covers governing of IC engines. Further this book provides basic insights of the important parameters to evaluate the performance of I.C. engines. Finally, useful discussions on the fundamentals of air compressors and their types, vapour compression refrigeration system, types of refrigerants, types of air conditioning, and seasonal air conditioning. This book also presents the method to conduct experiments for measuring Important properties used in the analysis.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
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- Figures, tables, and software screen shots are inserted to improve clarity of the topics.

- Apart from essential information a 'know more' section is also provided in each unit to extend the learning beyond syllabus.
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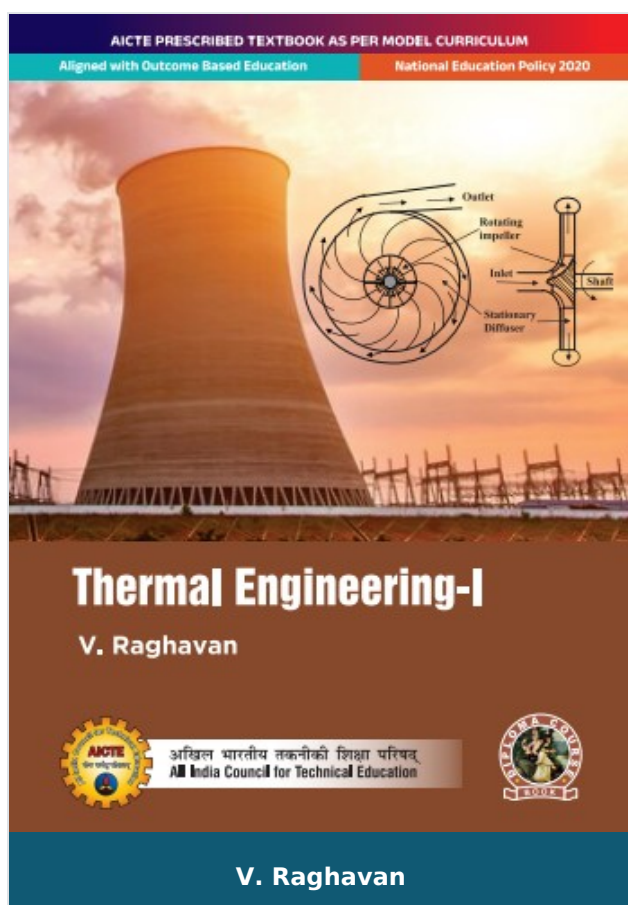
Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Sources of Energy.
- Internal Combustion Engines.
- C. Engine Systems.
- Performance of I.C. Engines.
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Author

V. Raghavan

Dr. V. Raghavan



Thermal Engineering- I

Author : V. Raghavan

ISBN 13 : 978-93-55389-01-5

ISBN 10 : 9355389019

E-ISBN 13 : 978-93-55389-01-5

Edition : First

Pages : 144

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 286.00

Categories : [AICTE Prescribed Textbooks,](#)
[English Books, Book Store](#)

Condition Type : New

Country Origin : India

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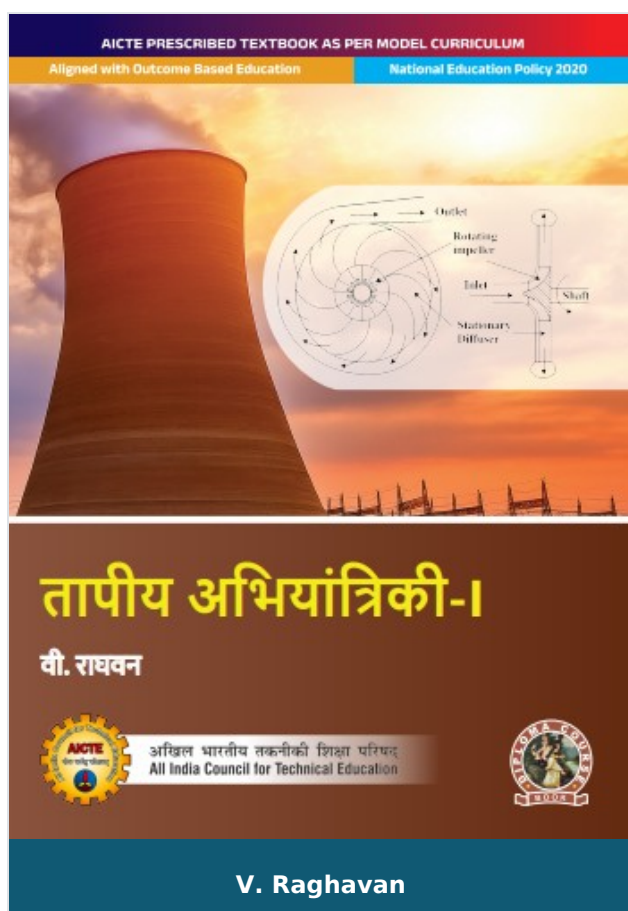
Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Sources of Energy.
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Author

V. Raghavan

Dr. V. Raghavan



Thermal Engineering - I

Author : V. Raghavan

ISBN 13 : 978-93-55388-46-9

ISBN 10 : 9355388462

E-ISBN 13 : 978-93-55388-46-9

Edition : First

Pages : 196

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 295.00

Categories : [AICTE Prescribed Textbooks, Hindi Books, Book Store](#)

Condition Type : New

Country Origin : India

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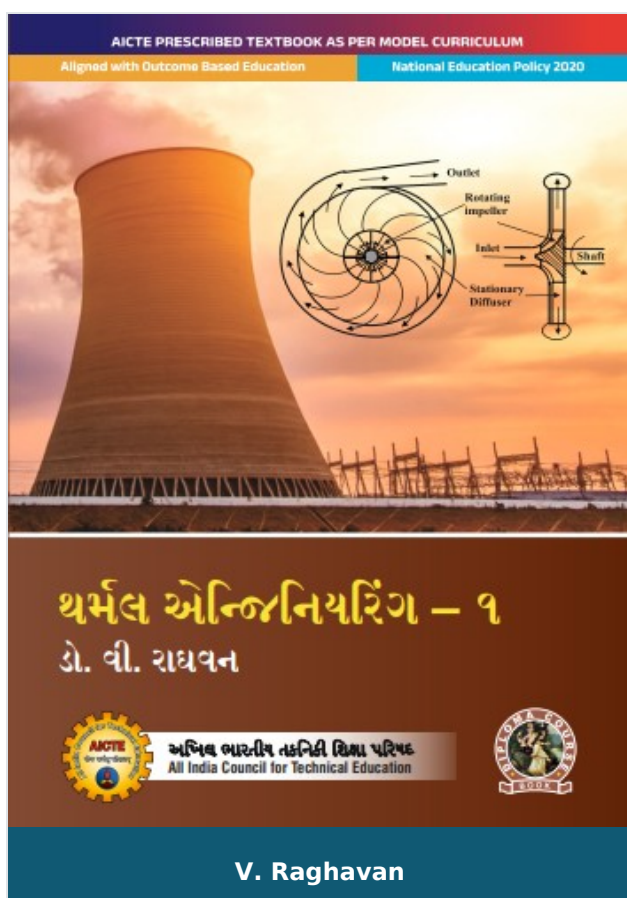
Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Sources of Energy.
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- C. Engine Systems.
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- Index

Author

V. Raghavan

Dr. V. Raghavan



Thermal Engineering- I

Author : V. Raghavan

ISBN 13 : 978-93-55382-49-8

ISBN 10 : 9355382499

E-ISBN 13 : 978-93-55382-49-8

Edition : First

Pages : 268

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 425.00

Categories : [AICTE Prescribed Textbooks,](#)
[Gujarati Books, Book Store](#)

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
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- Sources of Energy.
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Author

V. Raghavan

Dr. V. Raghavan