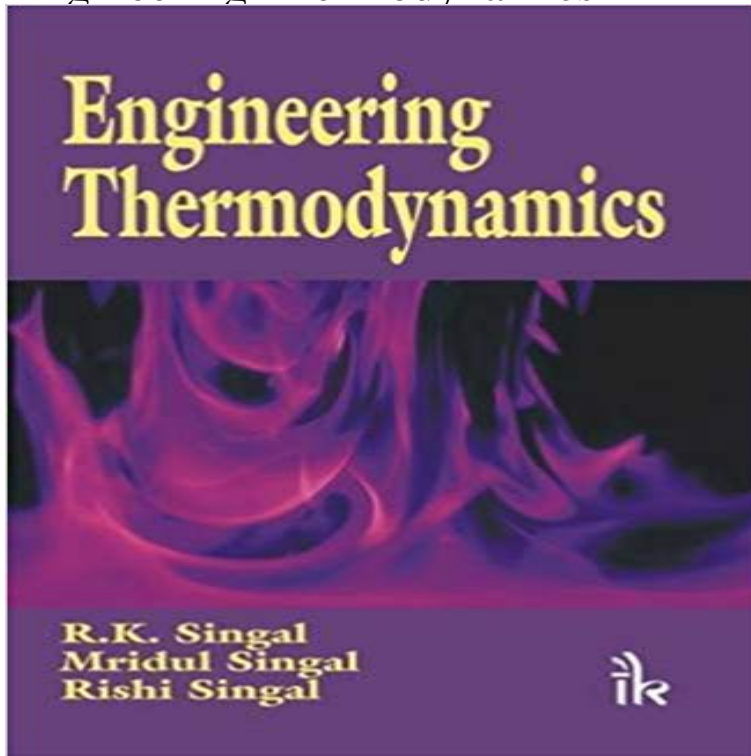


Engineering Thermodynamics



Engineering Thermodynamics has been designed for students of all branches of engineering specially undergraduate students of Mechanical Engineering. The book will also serve as reference manual for practising engineers. The book has been written in simple language and systematically develops the concepts and principles essential for understanding the subject. The text has been supplemented with solved numerical problems, illustrations and question banks. The present book has been divided in five parts:

Thermodynamic Laws and Relations
Properties of Gases and Vapours
Thermodynamics Cycles Heat Transfer and Heat Exchangers Annexures
Contents: PART I: THERMODYNAMIC LAWS AND RELATIONS / Basic Concepts / The First Law and its applications / The Second Law of Thermodynamics / Entropy and Thermodynamic Relations / PART II: PROPERTIES OF GASES AND VAPOURS / Gases and Gas Mixtures / Properties of Steam / Refrigerants / Products of Combustion / PART III: THERMODYNAMICS CYCLES / Air Standard Cycles / Gas Turbine Cycles / Steam Power Cycles / Combined and other Vapour Power Cycles / Refrigeration Cycles / PART IV - HEAT TRANSFER AND HEAT EXCHANGERS / Introduction to Heat Transfer / PART V - ANNEXURE / Annexure I: Introduction to SI Units / Annexure II: Steam Tables in SI Units / Annexure III: Objective Type Questions.

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