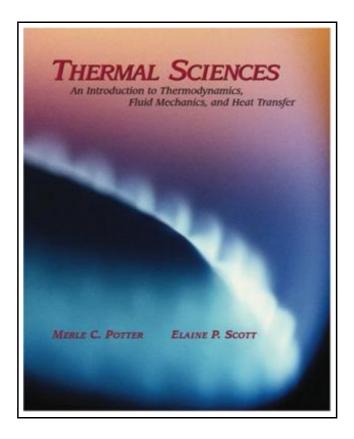
Thermal Sciences: An Introduction to Thermodynamics, Fluid Mechanics, and Heat Transfer (with CD ROM)



Filesize: 5.5 MB

Reviews

Very useful for all group of people. It is amongst the most incredible pdf i actually have read through. Its been written in an extremely straightforward way and it is just right after i finished reading through this pdf by which basically modified me, change the way i think. (Felicia Nikolaus)

THERMAL SCIENCES: AN INTRODUCTION TO THERMODYNAMICS, FLUID MECHANICS, AND HEAT TRANSFER (WITH CD ROM)



CL Engineering, 2003. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Part 1: THERMODYNAMICS. 1. CONCEPTS, DEFINITIONS, AND BASIC PRINCIPLES. Introduction. Thermodynamic Systems and Control Volumes. Macroscopic Description. Properties and State of a System. Equilibrium Processes and Cycles. Units. Density, Specific Volume, Specific Weight. Pressure. Temperature. Energy. 2. PROPERTIES OF PURE SUBSTANCES. Introduction. The p-T-v Surface. The Liquid-Vapor Region. Steam Tables. Equations of State. Equations of State for a Nonideal Gas. Summary. 3. WORK AND HEAT. Introduction. Definition of Work. Quasiequilibrium Work Due to a Moving Boundary. Nonequilibrium Work. Other Work Modes. Heat Transfer. Summary. 4. THE FIRST LAW OF THERMODYNAMICS. Introduction. The First Law of Thermodynamics Applied to a Cycle. The First Law Applied to a Process. Enthalpy. Latent Heat. Specific Heats. The First Law Applied to Various Processes. General Formulation for Control Volumes. Applications of the Energy Equation. Transient Flow. The First Law with Heat Transfer Applications. 5. THE SECOND LAW OF THERMODYNAMICS. Introduction. Heat Engines, Heat Pumps, and Refrigerators. Statements of the Second Law of Thermodynamics. Reversibility. The Carnot Engine. Carnot Efficiency. Entropy. Entropy for Ideal Gas with Constant Specific Heats. Entropy for Ideal Gas with Variable Specific Heats. Entropy for Substances such as Steam, Solids, and Liquids. The Inequality of Clausius. Entropy Change for an Irreversible Process. The Second Law Applied to a Control Volume. 6. POWER AND REFRIGERATION VAPOR CYCLES. Introduction. The Rankine Cycle. Rankine Cycle Efficiency. The Reheat Cycle. The Regenerative Cycle. Effect of Losses on Power Cycle Efficiency. The Vapor Refrigeration Cycle. The Heat Pump. 7. POWER AND REFRIGERATION GAS CYCLES. Introduction. The Air Standard Cycle. The Carnot Cycle. The Otto Cycle. The Diesel Cycle. The Brayton Cycle. The Regenerative Gas-Turbine Cycle. The Combined Rankine-Brayton Cycle. The Gas Refrigeration Cycle. 8. PSYCHOMETRICS. Introduction. Gas-Vapor Mixtures. Adiabatic Saturation...

- Read Thermal Sciences: An Introduction to Thermodynamics, Fluid Mechanics, and Heat Transfer (with CD ROM) Online
- Download PDF Thermal Sciences: An Introduction to Thermodynamics, Fluid Mechanics, and Heat Transfer (with CD ROM)

Related Kindle Books



Children's Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254×178 mm. Language: English . Brand New Book ***** Print on Demand *****. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

Read Book »



Children's Educational Book Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]

Createspace, United States, 2013. Paperback. Book Condition: New. 248 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

Read Book »



Kindle Fire Tips And Tricks How To Unlock The True Power Inside Your Kindle Fire

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 52 pages. Dimensions: 9.0in. x 6.0in. x 0.1in.Still finding it getting your way around your Kindle Fire Wish you had...

Read Book »



California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Pearson, United States, 2015. Loose-leaf. Book Condition: New. 10th. 249 x 201 mm. Language: English. Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies...

Read Book »



Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Pearson, United States, 2015. Book. Book Condition: New. 10th. 250 x 189 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies...

Read Book »