

1. Record Nr.	UNINA9910810222903321
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Titolo	Applied thermodynamics / / Onkar Singh
Pubbl/distr/stampa	New Delhi, : New Age International (P) Ltd., c2009
ISBN	81-224-2916-5 9786612385711 1-282-38571-2
Edizione	[3rd ed.]
Descrizione fisica	1 online resource (965 p.)
Soggetti	Thermodynamics Combustion
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	<p>""Cover""; ""Preface to the Third Edition""; ""Preface to the First Edition""; ""Contents""; ""Chapter 1. Fundamental Concepts and Definitions""; ""1.1 Introduction and Definition of Thermodynamics""; ""1.2 Dimensions and Units""; ""1.3 Concept of Continuum""; ""1.4 Systems, Surroundings and Universe""; ""1.5 Properties and State""; ""1.6 Thermodynamic Path, Process and Cycle""; ""1.7 Thermodynamic Equilibrium""; ""1.8 Reversibility and Irreversibility""; ""1.9 Quasi-Static Process""; ""1.10 Some Thermodynamic Properties""; ""1.11 Energy and Its Forms""; ""1.12 Heat and Work"" ""1.13 Gas Laws"" ""1.14 Ideal Gas""; ""1.15 Dalton's Law, Amagat's Law and Property of Mixture of Gases""; ""1.16 Real Gas""; ""1.17 Vander Waals and Other Equations of State for Real Gas""; ""Examples""; ""Exercises""; ""Chapter 2. Zeroth Law of Thermodynamics""; ""2.1 Introduction""; ""2.2 Principle of Temperature Measurement and Zeroth Law of Thermodynamics""; ""2.3 Temperature Scales""; ""2.4 Temperature Measurement""; ""Examples""; ""Exercise""; ""Chapter 3. First Law of Thermodynamics""; ""3.1 Introduction""; ""3.2 Thermodynamic Processes and Calculation of Work"" ""3.3 Non-Flow Work and Flow Work"" ""3.4 First Law of Thermodynamics""; ""3.5 Internal Energy and Enthalpy""; ""3.6 Specific Heats and Their Relation with Internal Energy and Enthalpy""; ""3.7 First</p>

Law of Thermodynamics Applied to Open Systems"; "3.8 Steady Flow Systems and Their Analysis"; "3.9 First Law Applied to Engineering Systems"; "3.10 Unsteady Flow Systems and Their Analysis"; "3.11 Limitations of First Law of Thermodynamics"; "Examples"; "Exercise"; "Chapter 4. Second Law of Thermodynamics"; "4.1 Introduction"; "4.2 Heat Reservoir"; "4.3 Heat Engine"; "4.4 Heat Pump and Refrigerator"; "4.5 Statements for Second Law of Thermodynamics"; "4.6 Equivalence of Kelvin-Planck and Clausius Statements of Second Law of Thermodynamics"; "4.7 Reversible and Irreversible Processes"; "4.8 Carnot Cycle and Carnot Engine"; "4.9 Carnot Theorem and Its Corollaries"; "4.10 Thermodynamic Temperature Scale"; "Examples"; "Exercise"; "Chapter 5. Entropy"; "5.1 Introduction"; "5.2 Clausius Inequality"; "5.3 Entropy-A Property of System"; "5.4 Principle of Entropy Increase"; "5.5 Entropy Change During Different Thermodynamic Processes"; "5.6 Entropy and Its Relevance"; "5.7 Thermodynamic Property Relationship"; "5.8 Third Law of Thermodynamics"; "Examples"; "Exercise"; "Chapter 6. Thermodynamic Properties of Pure Substance"; "6.1 Introduction"; "6.2 Properties and Important Definitions"; "6.3 Phase Transformation Process"; "6.4 Graphical Representation of Pressure, Volume and Temperature"; "6.5 Thermodynamic Relations Involving Entropy"; "6.6 Properties of Steam"; "6.7 Steam Tables and Mollier Diagram"; "6.8 Dryness Fraction Measurement"

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