1. Record Nr. UNINA9910792447903321 Autore Oanhara Singha Titolo Applied thermodynamics [[electronic resource] /] / Onkar Singh New Delhi,: New Age International (P) Ltd., c2009 Pubbl/distr/stampa **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. ""Cover""; ""Preface to the Third Edition""; ""Preface to the First Edition""; Nota di contenuto ""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

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