

|                         |  |
|-------------------------|--|
| 1. Record Nr.           | UNINA9910782605803321  |
| Autore                  | Wu Chih <1936->  |
| Titolo                  | Thermodynamics and heat powered cycles [[electronic resource] ] : a cognitive engineering approach // Chih Wu  |
| Pubbl/distr/stampa      | New York, : Nova Science Publishers, c2007   |
| ISBN                    | 1-60692-626-8  |
| Descrizione fisica      | 1 online resource (677 p.)   |
| Disciplina              | 621.402/1  |
| Soggetti                | Thermodynamics - Data processing<br>Heat engineering - Data processing   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Description based upon print version of record.  |
| Nota di bibliografia    | Includes bibliographical references (p. [651]) and index.  |
| Nota di contenuto       | <p>           ""THERMODYNAMICS AND HEATPOWERED CYCLES:A<br/>           COGNITIVEENGINEERING APPROACH""; ""NOTICE TO THE READER"";<br/>           ""CONTENTS""; ""PREFACE""; ""ACKNOWLEDGEMENTS""; ""BASIC<br/>           CONCEPTS""; ""1.1. THERMODYNAMICS""; ""Homework 1.1.<br/>           Thermodynamics""; ""1.2. BASIC LAWS""; ""Homework 1.2. Basic Laws"";<br/>           ""1.3. WHY STUDY THERMODYNAMICS?""; ""Homework 1.3. Why Study<br/>           Thermodynamics?""; ""1.4. DIMENSIONS AND UNITS""; ""Example<br/>           1.4.1.""; ""Example 1.4.2.""; ""Homework 1.4. Dimensions and Units"";<br/>           ""1.5. SYSTEMS""; ""Homework 1.5. Systems""; ""1.6. PROPERTIES OF A<br/>           SYSTEM""; ""1.6.1. Volume (V)""<br/>           ""1.6.2. Density (I?) and Specific Volume (v)""""Example 1.6.1.""; ""1.6.3.<br/>           Pressure (p)""; ""Example 1.6.3.1.""; ""Example 1.6.3.2.""; ""1.6.4.<br/>           Temperature (T)""; ""Example 1.6.4.1.""; ""1.6.5. Energy (E)""; ""1.6.6.<br/>           Enthalpy (H)""; ""1.6.7. Specific Heat (c, cp and cv)""; ""1.6.8. Ratio of<br/>           the Specific Heats (k)""; ""1.6.9. Quality, Dryness and Moisture<br/>           Content""; ""Example 1.6.9.1.""; ""1.6.10. Entropy (S)""; ""1.6.11. Point<br/>           Function""; ""Homewok 1.6. Properties""; ""1.7. EQUILIBRIUM STATE"";<br/>           ""Homework 1.7. Equilibrium State""; ""1.8. PROCESSES AND CYCLES""<br/>           ""Homework 1.8. Processes and Cycles""""1.9. CYCLEPAD""; ""1.9.1.<br/>           Download""; ""1.9.2. Installation onto your own PC""; ""1.9.3.<br/>           Contents""; ""1.9.4. Modes""; ""1.10. SUMMARY""; ""PROPERTIES OF<br/>           THERMODYNAMIC SUBSTANCES""; ""2.1. THERMODYNAMIC<br/>           SUBSTANCES""; ""Homework 2.1. Thermodynamic Substances""; ""2.2.         </p> |

PURE SUBSTANCES"; "Example 2.2.1."; "Example 2.2.2."; "Example 2.2.3."; "Example 2.2.4."; "Example 2.2.5."; "Example 2.2.6."; "Example 2.2.7."; "Example 2.2.8."; "Example 2.2.9."; "Example 2.2.10."; "Homework 2.2. Pure substances"; "2.3. IDEAL GASES" "Example 2.3.1." "Example 2.3.2."; "Example 2.3.3."; "Example 2.3.4."; "Example 2.3.5."; "Example 2.3.6."; "Example 2.3.7."; "Homework 2.3. Ideal gases"; "2.4. REAL GASES"; "Example 2.4.1."; "Homework 2.4. Real gases"; "2.5. INCOMPRESSIBLE SUBSTANCES"; "Example 2.5.1."; "Example 2.5.2."; "Example 2.5.3."; "Homework 2.5. Incompressible substances (Liquids and solids)"; "2.6. SUMMARY"; "FIRST LAW OF THERMODYNAMICS FOR CLOSED SYSTEMS"; "3.1. INTRODUCTION"; "Homework 3.1. Introduction"; "3.2. WORK"; "Example 3.2.1."; "Example 3.2.2."; "Example 3.2.3." "Homework 3.2. Work" "3.3. HEAT"; "Homework 3.3. Heat"; "3.4. FIRST LAW OF THERMODYNAMICS FOR A CLOSED SYSTEM"; "Example 3.4.2."; "Homework 3.4. First Law of Thermodynamics for a Closed System"; "3.5. FIRST LAW OF THERMODYNAMICS FOR A CLOSED SYSTEM APPLY TO CYCLES"; "Example 3.5.1."; "Homework 3.5. First Law of Thermodynamics for a Closed System Apply to Cycles"; "3.6. CLOSED SYSTEM FOR VARIOUS PROCESSES"; "3.6.1. Constant Volume (Isochoric or Isometric) Process"; "Homework 3.6.1. Constant Volume"; "3.6.2. Constant Pressure (Isobaric) Process" "Homework 3.6.2. Isobaric Process"

---