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Autore	Dincer Ibrahim <1964->
Titolo	Exergy analysis of heating, refrigerating, and air conditioning : methods and applications / / Ibrahim Dincer and Marc A. Rosen
Pubbl/distr/stampa	Amsterdam, Netherlands : , : Elsevier, , [2015] ©2015
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Descrizione fisica	1 online resource (402 p.)
Disciplina	697
Soggetti	Calefacció Exergia Ventilació Heating Ventilation Exergy
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 and index.
Nota di contenuto	Front Cover; Exergy Analysis of Heating, Refrigerating, and Air Conditioning: Methods and Applications; Copyright; Contents; Acknowledgments; Preface; Chapter 1: Exergy and its Ties to the Environment, Economics, and Sustainability; 1.1. Introduction; 1.2. Why Exergy?; 1.3. Importance of Energy to Industry, Culture, and Living Standards; 1.4. Heating, Refrigeration, and Air Conditioning and Their Energy Use; 1.5. Benefits of Using Exergy Analysis for Heating, Refrigerating, and Air Conditioning; 1.6. Energy and Exergy Fundamentals; 1.6.1. First Law of Thermodynamics 1.6.2. Second Law of Thermodynamics1.6.3. Exergy; 1.6.3.1. Exergy Analysis; 1.6.3.2. Exergy of a Closed System; 1.6.3.3. Exergy of Flows; 1.6.3.3.1. Exergy of a Matter Flow; 1.6.3.3.2. Exergy of Thermal Energy; 1.6.3.3.3. Exergy of Work; 1.6.3.3.4. Exergy of Electricity; 1.6.3.4. Exergy Consumption; 1.6.4. Balances; 1.6.4.1. Conceptual Balances; 1.6.4.2. Detailed Balances; 1.6.5. Energy and Exergy Efficiencies; 1.7. Approaches to Exergy and Other Second Law Analyses; 1.7.1. Illustrative Example; 1.7.1.1. First Law Analysis; 1.7.1.2. Second Law

Analysis

1.7.2. Implications of Second Law Analysis1.8. Linkages Between Exergy, Economics, the Environment, and Sustainability; 1.9. Relations Between Exergy and Economics; 1.10. Relations Between Exergy and Environmental Impact and Ecology; 1.11. Relations Between Exergy and Sustainability; 1.12. Closing Remarks; References; Chapter 2: Energy and Exergy Assessments; 2.1. Introduction; 2.2. Heat Exchangers (Heating/Cooling); 2.2.1. Log Mean Temperature Difference Method; 2.2.2. -NTU (Effectiveness Analysis); 2.2.3. Efficiencies; 2.2.4. Illustrative Example; 2.2.4.1. Results and Discussion
2.2.4.2. Parametric Study2.3. Pumps; 2.3.1. Energy Efficiency; 2.3.2. Exergy Efficiency; 2.3.3. Illustrative Example; 2.3.3.1. Results and Discussion; 2.3.3.2. Parametric Study; 2.4. Compressors; 2.4.1. Efficiencies; 2.4.2. Illustrative Example; 2.4.2.1. Results and Discussion; 2.4.2.2. Parametric Study; 2.5. Fans; 2.5.1. Efficiencies; 2.5.2. Illustrative Example; 2.6. Throttling Valves; 2.6.1. Functions Performed by Throttling Devices in Refrigeration Systems; 2.6.2. Types of Throttling Devices; 2.6.3. Throttle Efficiencies; 2.6.4. Illustrative Example; 2.6.4.1. Results and Discussion
2.6.4.2. Parametric Study2.7. Turbines; 2.7.1. Turbine Efficiencies; 2.7.2. Illustrative Example; 2.7.2.1. Results and Discussion; 2.7.2.2. Parametric Study; 2.8. Energy and Exergy Assessments of Psychrometric Processes; 2.9. Sensible Cooling (1=2); 2.9.1. Efficiencies; 2.9.2. Illustrative Example; 2.9.2.1. Results and Discussion; 2.9.2.2. Parametric Studies; 2.10. Sensible Heating (1=2); 2.10.1. Rate Balance Equations; 2.10.2. Efficiencies; 2.10.3. Illustrative Example; 2.10.3.1. Results and Discussion; 2.10.3.2. Parametric Studies; 2.11. Heating with Humidification
2.11.1. Rate Balance Equations

Sommario/riassunto

Improve and optimize efficiency of HVAC and related energy systems from an exergy perspective. From fundamentals to advanced applications, Exergy Analysis of Heating, Air Conditioning, and Refrigeration provides readers with a clear and concise description of exergy analysis and its many uses. Focusing on the application of exergy methods to the primary technologies for heating, refrigerating, and air conditioning, Ibrahim Dincer and Marc A. Rosen demonstrate exactly how exergy can help improve and optimize efficiency, environmental performance, and cost-effectiveness. The book also discuss

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Autore	Okihiro Gary Y. <1945->
Titolo	American history unbound : Asians and Pacific Islanders / / Gary Y. Okihiro
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ISBN	0-520-96030-0
Descrizione fisica	1 online resource (514 p.)
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- CONTENTS -- ILLUSTRATIONS -- ACKNOWLEDGMENTS -- INTRODUCTION -- 1. OCEAN WORLDS -- 2. THE WORLD-SYSTEM -- 3. THE UNITED STATES -- 4. IMPERIAL REPUBLIC -- 5. Hawai'i -- 6. CALIFORNIA -- 7. NORTHWEST, NORTHEAST, SOUTH, AND NORTH -- 8. DEPENDENT Hawai'i -- 9. SAN FRANCISCO -- 10. SEATTLE, NEW YORK CITY, CHICAGO -- 11. WORLD WAR II -- 12. MILITARIZED ZONES -- 13. GLOBAL TRANSITS -- 14. REGENERATIONS -- NOTES -- INDEX
Sommario/riassunto	A survey of U.S. history from its beginnings to the present, American History Unbound reveals our past through the lens of Asian American and Pacific Islander history. In so doing, it is a work of both history and anti-history, a narrative that fundamentally transforms and deepens our understanding of the United States. This text is accessible and filled with engaging stories and themes that draw attention to key theoretical and historical interpretations. Gary Y. Okihiro positions Asians and Pacific Islanders within a larger history of people of color in the United States and places the United States in the context of world history and oceanic worlds.

3. Record Nr. UNINA9910785287603321

Autore	Poullikkas Andreas
Titolo	Introduction to power generation technologies [[electronic resource] /] / Andreas Poullikkas
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Collana	Energy science, engineering and technology series
Disciplina	621.31/21
Soggetti	Electric power production
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Nota di bibliografia	Includes bibliographical references and index.