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Titolo	Network Games, Control, and Optimization : Proceedings of NETGCOOP 2018, New York, NY / Jean Walrand … [et al.] editors]
Pubbl/distr/stampa	Cham, : Birkhauser, 2019
Titolo uniforme	Network Games, Control, and Optimization : Proceedings of NETGCOOP 2018, New York, NY
Descrizione fisica	xii, 287 p. : ill. ; 24 cm
Soggetti	68-XX - Computer science [MSC 2020] 91Axx - Game theory [MSC 2020] 00B25 - Proceedings of conferences of miscellaneous specific interest [MSC 2020] 91-XX - Game theory, economics, finance, and other social and behavioral sciences [MSC 2020] 90-XX - Operations research, mathematical programming [MSC 2020]
Lingua di pubblicazione	Inglese
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Titolo	Industrial gases processing / / edited by Heinz-Wolfgang Haring ; translated by Christine Ahner
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Descrizione fisica	1 online resource (312 p.)
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Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chaptes and index.
Nota di contenuto	Industrial Gases Processing; Foreword; Contents; List of Contributors; 1 Introduction; References; 2 The Air Gases Nitrogen, Oxygen and Argon; 2.1 History, Occurrence and Properties; 2.1.1 Nitrogen; 2.1.1.1 History; 2.1.1.2 Occurrence; 2.1.1.3 Physical and Chemical Properties; 2.1.2 Oxygen; 2.1.2.1 History; 2.1.2.2 Occurrence; 2.1.2.3 Physical and Chemical Properties; 2.1.3 Argon; 2.1.3.1 History; 2.1.3.2 Occurrence; 2.1.3.3 Physical and Chemical Properties; 2.2 Recovery of Nitrogen, Oxygen and Argon; 2.2.1 Introduction 2.2.2 Application Range of Membrane Separation, Pressure Swing Adsorption and Cryogenic Rectification2.2.3 Nitrogen Recovery with Membranes; 2.2.3.1 Physical Principle; 2.2.3.2 Membrane Technology; 2.2.3.3 Design; 2.2.4 Nitrogen and Oxygen Recovery by Means of Pressure Swing Adsorption; 2.2.4.1 Physical Principle; 2.2.4.2 Properties of Molecular Sieves; 2.2.4.3 Nitrogen Recovery; 2.2.4.4 Oxygen Recovery; 2.2.5 Cryogenic Rectification; 2.2.5.1 Process with Air Booster and Medium-Pressure Turbine for the Recovery of Compressed Oxygen, Nitrogen and Argon; 2.2.5.2 Internal

Compression
2.2.5.3 Nitrogen Generators2.2.5.4 Liquefiers; 2.2.5.5 High-purity Plants; 2.2.5.6 Apparatus; 2.2.5.7 Design, Assembly and Transport of the Coldbox; 2.3 Safety Aspects; 2.3.1 Introduction; 2.3.3 Air Pollution; 2.3.4 Ignition in Reboilers; 2.3.5 Other Hazards in Air Separation Units; 2.4 Process Analysis Air Separation Units; 2.5 Applications of the Air Gases; 2.5.1 Applications of Nitrogen; 2.5.1.1 Applications of Nitrogen for Inerting and Purging; 2.5.1.2 Applications of Nitrogen for Cooling, Preserving and Deep-Freezing; 2.5.2 Applications of Oxygen; 2.5.3 Applications of Argon; References
3 The Noble Gases Neon, Krypton and Xenon3.1 History and Occurrence; 3.2 Physical and Chemical Properties; 3.3 Recovery of Krypton and Xenon; 3.3.1 Pre-enrichment in the Air Separator; 3.3.2 Recovery of Pure Kr and Xe; 3.3.2.1 Catalytic Combustion of Hydrocarbons; 3.3.2.2 Cryogenic Separation; 3.4 Recovery of Neon; 3.4.1 Pre-enrichment; 3.4.2 Fine Purification; 3.5 Industrial Product Purities and Analytics; 3.6 Applications of the Noble Gases Neon, Krypton and Xenon; 3.6.1 Applications of Neon; 3.6.2 Applications of Krypton; 3.6.3 Applications of Xenon; References; 4 The Noble Gas Helium
4.1 History, Occurrence and Properties4.1.1 History; 4.1.2 Occurrence; 4.1.3 Physical and Chemical Properties; 4.2 Recovery; 4.3 Applications; References; 5 Hydrogen and Carbon Monoxide: Synthesis Gases; 5.1 History, Occurrence and Properties; 5.1.1 Introduction; 5.1.2 History of Synthesis Gas; 5.1.3 Hydrogen; 5.1.3.1 History and Occurrence; 5.1.3.2 Physical and Chemical Properties; 5.1.4 Carbon Monoxide; 5.1.4.1 History and Occurrence; 5.1.4.2 Physical and Chemical Properties; 5.2 Production of Synthesis Gas; 5.2.1 Production of Hydrogen by Electrolysis
5.2.2 Production of Synthesis Gas from Hydrocarbons

Sommario/riassunto

Almost every modern manufacturing process relies on industrial gases, and sales of such gases are expected to rise by around 45% over the next five years.Here, experienced and authoritative experts from one of the two world's largest producer of industrial gases impart their knowledge on atmospheric, noble and synthesized gases, carbon dioxide, LNG, acetylene and other fuel gases, as well as special and medical gases. Modern applications, e.g., the use of hydrogen in fuel cells, are included as well. This practical text is rounded off by a section on logistics.