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Nota di contenuto	<p>Front cover; copyright; Contents; Preface; COMPANION WEBSITE; TERMINOLOGY; ACKNOWLEDGMENTS; 1. Introduction; 1.1 HISTORICAL DEVELOPMENT OF GASIFICATION; 1.2 GASIFICATION TODAY; 2. The Thermodynamics of Gasification; 2.1 REACTIONS; 2.2 THERMODYNAMIC MODELING OF GASIFICATION; 2.2.1 Basic Data; 2.2.2 Equations; 2.2.3 Variables; 2.3 DEDUCTIONS FROM THE THERMODYNAMIC MODEL; 2.3.1 Effect of Pressure; 2.3.2 Effect of Temperature; 2.3.3 Fuel Footprint; 2.3.4 Surprises in Calculations; 2.4 OPTIMIZING PROCESS CONDITIONS; 2.4.1 Process Indicators; 2.4.2 Optimum Operating Point</p> <p>3. The Kinetics of Gasification and Reactor Theory 3.1 KINETICS; 3.1.1 Devolatilization; 3.1.2 Volatiles Combustion; 3.1.3 Char Gasification; 3.2 REACTOR THEORY; 3.3 APPLICATIONS TO REACTOR DESIGN; 3.3.1 Modeling; 4. Feedstocks and Feedstock Characteristics; 4.1 COALS AND COKE; 4.1.1 Formation of Coal; 4.1.2 Coal Analysis; 4.1.3 Other Minerals in Coal; 4.1.4 Other Properties; 4.1.5 Ash Properties; 4.1.6 Coke; 4.1.7 Petroleum Coke; 4.2 LIQUID AND GASEOUS FEEDSTOCKS; 4.2.1 Refinery Residues; 4.2.2 Other Liquid Feedstocks; 4.2.3 Natural Gas; 4.2.4 Other Gaseous Feedstocks; 4.3 BIOMASS</p> <p>4.3.1 Properties of Biomass 4.3.2 Black Liquor; 4.3.3 Biomass Production; 4.3.4 Development Potential; 4.4 WASTES; 4.4.1 Solid Waste; 4.4.2 Liquid Wastes; 5. Gasification Processes; 5.1 MOVING- BED PROCESSES; 5.1.1 The Lurgi Dry Ash Process; 5.1.2 British Gas/ Lurgi (BGL) Slagging Gasifier; 5.1.3 Ruhr 100; 5.2 FLUID- BED GASIFIERS; 5.2.1 Common Issues; 5.2.2 The Winkler Process; 5.2.3 The High-Temperature Winkler (HTW) Process; 5.2.4 Circulating Fluid- Bed (CFB) Processes; 5.2.5 The KBR Transport Gasifier; 5.2.6 Agglomerating Fluid- Bed Processes; 5.2.7 Development Potential</p> <p>5.3 ENTRAINED- FLOW GASIFIERS 5.3.1 General Considerations; 5.3.2 The Koppers- Totzek Atmospheric Process; 5.3.3 Shell Coal Gasification Process (SCGP) and Prenflo Process; 5.3.4 The Noell Process; 5.3.5 The Texaco Process; 5.3.6 The E- Gas Process; 5.3.7 The CCP Gasifier; 5.3.8 The EAGLE Gasifier; 5.4 OIL GASIFICATION AND PARTIAL OXIDATION OF NATURAL GAS; 5.4.1 The Texaco Gasification Process; 5.4.2 The Shell Gasification Process (SGP); 5.4.4 New Developments; 5.4.5 Process Safety; 5.5 BIOMASS GASIFICATION; 5.5.1 Fluid- Bed Processes; 5.5.2 Twin Fluid- Bed Steam Gasification</p> <p>5.5.3 Pyrolysis Processes 5.5.4 Other Processes; 5.6 GASIFICATION OF WASTES; 5.6.1 Coal Gasifiers in Waste Service; 5.6.2 Purpose Developed Processes; 5.7 BLACK LIQUOR GASIFICATION; 5.7.1 The Chemrec Process; 5.7.2 MTCI ""Pulse Enhanced"" Steam Reformer; 5.8 MISCELLANEOUS PROCESSES; 5.8.1 In situ Gasification; 5.8.2 Molten Iron Processes; 5.8.3 Plasma Gasification; 5.8.4 Hydrogasification; 6. Practical Issues; 6.1 EFFECT OF PRESSURE; 6.2 PRESSURIZATION OF COAL; 6.2.1 Dry- Coal Feeding with Lock Hoppers; 6.2.2 Pumping Coal as a Coal- Water Slurry; 6.2.3 Wet Lock Hoppers</p> <p>6.2.4 Tall Hoppers for Pressurizing</p>

Sommario/riassunto

This book provides an excellent overview of current technologies for the gasification of coal, oil, gas, biomass and waste feedstocks. Starting from the basic theory, it reviews the potential feedstocks and their suitability for different types of gasification process. Commercial and near-commercial processes are described individually and various features discussed in detail. There is a comprehensive review of contaminants in synthesis gas as well as of gas treating processes. One chapter is devoted to discussions of various chemical, fuel and

power applications for gasification.

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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Addictive Disorders in Medical Populations; Contents; List of Contributors; Preface; Acknowledgements; Part One: Addictive disorders and medicine; Part Two: Assessment and diagnosis; Part Three: Addictive disorders and clinical diseases; Part Four: Management of addictive disorders in selected populations; Part Five: Treatment of addictive disorders; Index
Sommario/riassunto	This book has a much wider focus than traditional books written about drug and alcohol addictions. This unique book is written by medical specialists who diagnose, treat and research addictive disorders in their specialities. Thus, it meets the needs of the typical medical practitioner

who wants to learn about and treat patients with addictive disorders in their practices. Because alcohol and drug problems are so prevalent and affect medical conditions profoundly, the medical specialist will improve their knowledge and skill to diagnose and treat addictive disorders in their specialties. Dru
