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| Descrizione fisica      | 1 online resource (436 p.)   |
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| Soggetti                | Fluidized-bed combustion<br>Fossil fuels - Combustion<br>Energy conversion   |
| Lingua di pubblicazione | Inglese  |
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| Nota di contenuto       | CHEMICAL LOOPING SYSTEMS FOR FOSSIL ENERGY CONVERSIONS; CONTENTS; PREFACE; CHAPTER 1: INTRODUCTION; CHAPTER 2: CHEMICAL LOOPING PARTICLES; CHAPTER 3: CHEMICAL LOOPING COMBUSTION; CHAPTER 4: CHEMICAL LOOPING GASIFICATION USING GASEOUS FUELS; CHAPTER 5: CHEMICAL LOOPING GASIFICATION USING SOLID FUELS; CHAPTER 6: NOVEL APPLICATIONS OF CHEMICAL LOOPING TECHNOLOGIES; SUBJECT INDEX; AUTHOR INDEX   |
| Sommario/riassunto      | This book presents the current carbonaceous fuel conversion technologies based on chemical looping concepts in the context of traditional or conventional technologies. The key features of the chemical looping processes, their ability to generate a sequestration-ready CO <sub>2</sub> stream, are thoroughly discussed. Chapter 2 is devoted entirely to the performance of particles in chemical looping technology and covers the subjects of solid particle design, synthesis, properties, and reactive characteristics. The looping processes can be applied for combustion and/or gasification of carbon-based material s |

