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Nota di contenuto	Introduction -- Fluidized Bed Reactors: Operational Fundamentals -- Gasification in FBRs -- Oxy-fuel Combustion in FBRs -- Chemical Looping Combustion (CLC) in FBRs -- Calcium Looping in FBRs -- Low-temperature Sorption in FBRs -- Challenges and Outlooks.
Sommario/riassunto	This open access book provides a perspective on CO2 capture technologies that employ fluidized bed reactors, (FBRs) involving pre-combustion gasification, oxy-fuel combustion, chemical looping combustion, calcium looping process, and low-temperature sorption. The state-of-the-art progress from the lab-scale FBRs to pilot-scale demonstration facilities is summarized, and the remaining challenges are discussed. Moreover, this book also discussed the future solutions to overcome existing barriers in the application of FBRs for CO2

capture and provided an outlook on potential advancements and improvements. The authors anticipate endeavors made herein can impel the commercialization of fluidized bed technologies for CO₂ capture from large industrial sources.
