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Nota di contenuto	part I. Introduction to fluidization science and technology -- part II. Fundamentals of fluidized bed combustion and gasification -- part III. Fluidized bed combustion and gasification technologies -- part IV. Emerging CO2 capture technologies -- part V. Other applications of fluidized bed technology.
Sommario/riassunto	Fluidized bed (FB) combustion and gasification are advanced techniques for fuel flexible, high efficiency and low emission conversion. Fuels are combusted or gasified as a fluidized bed suspended by jets with sorbents that remove harmful emissions such as SOx. CO2 capture can also be incorporated. Fluidized bed technologies for near-zero emission combustion and gasification provides an overview of established FB technologies while also detailing recent developments in the field. Part one, an introductory section, reviews fluidization science and FB technologies and includes chapters on