1. Record Nr. UNINA9910816167203321

Titolo	Fluidized bed technologies for near-zero emission combustion and gasification / / edited by Fabrizo Scala
Pubbl/distr/stampa	Cambridge : , : Woodhead Publishing, , 2013
ISBN	0-85709-880-2
Descrizione fisica	1 online resource (xxix, 1058 pages) : illustrations (some color)
Collana	Woodhead Publishing series in energy, , 2044-9364 ; ; number 59
Disciplina	621.4 621.4028
Soggetti	Fluidized-bed combustion
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 2044-9364."
Nota di bibliografia	Includes bibliographical references and index.
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

2. Record Nr. UNINA9910557470403321

Autore	Trzepiecinski Tomasz
Titolo	Forming Processes of Modern Metallic Materials
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (258 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The plastic forming of metallic materials is the most efficient and an important manufacturing technology in today's industry. Lightweight materials, such as titanium alloys, aluminum alloys, and ultra-high-strength steels, are used extensively in the automotive, aerospace, transportation, and construction industries, leading to increased demand for advanced innovative forming technologies. Today, numeric simulations are highly focused and provide a better understanding of the innovative forming processes. Computational methods and numerical analysis coupled with the modelling of the structural evolution allow us to reduce time costs and eliminate experimental tests. The subjects of research articles published in this nook are multidisciplinary, including friction and lubrication in sheet metal forming, hot strip rolling and tandem strip rolling, application of numeric methods to simulate metal forming processes, development of new creep performance materials, the single point incremental forming process, and the fatigue fracture characteristics of Alclad 7075-T6 aluminum alloy sheets joined by refill friction stir spot welding. Review articles summarize the approaches on the innovative numerical algorithms, experimental methods, and theoretical contributions that have recently been proposed for sheet metal forming by researchers and business research centers.