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Autore	Sennett, Richard <1943- >
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2. Record Nr.	UNINA9910887808003321
Autore	Zhou Ling
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Altri autori (Persone)	ElemamMahmoud A AgarwalR. K (Ramesh K.) ShiWeidong
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Soggetti	Renewable energy sources Biomaterials Nanoparticles Fluid mechanics Biotechnology Mathematical physics Computer simulation Renewable Energy Engineering Fluid Dynamics Chemical Bioengineering Computational Physics and Simulations
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Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Aerodynamic Systems -- Chapter 3. Modeling of Aerodynamic Systems -- Chapter 4. Computational Fluid Dynamic (CFD) -- Chapter 5. Discrete Element Method (DEM) -- Chapter 6. CFD–DEM Coupling -- Chapter 7. CFD–DEM Applications -- Chapter 8. Challenges and Future Outlook.
Sommario/riassunto	This book presents the advanced theory and application of the combined Computational Fluid Dynamics – Discrete Element Method (CFD-DEM) to multiphase flow simulations of the gas and bio-

particulate matter of non-uniformly shaped biomass. It explores how DEM can simulate the complex behaviour of biomass particles, such as their packing in the multiphase flows that occurs in the agricultural product processing industries. It offers an overview of aerodynamic systems, such as cyclone separators, used in the agricultural processing industry. A detailed description of DEM modeling, including the particle-particle, particle-boundary, and particle-fluid interactions in the context of biomass particles of varying sizes and shapes, is provided. Coverage includes the critical application of CFD-DEM simulation technology in designing and optimizing grain handling and processing equipment and the application of extended DEM to other granular flows of complex particles like sand, powders, and dust from mines where clumping and agglomeration occur. The application of DEM in modeling and simulation of complex multiphase systems can help improve productivity, reduce costs, and increase efficiency in the agricultural industry. Provides state-of-the-art coverage of the discrete element method (DEM) for multiphase flows with biomass particles; Offers computational fluid dynamics (CFD) modeling and turbulence models for turbulent multiphase flows; Describes granular flow and biomass modeling in aerodynamic systems and cyclone separators in the agriculture industry.
