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Titolo	Particles in Flows / / edited by Tomáš Bodnár, Giovanni P. Galdi, Šárka Neasová
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Descrizione fisica	1 online resource (XI, 519 p. 170 illus., 156 illus. in color.)
Collana	Advances in Mathematical Fluid Mechanics, , 2297-0339
Disciplina	531.163
Soggetti	Differential equations Biomathematics Mathematical physics Fluid mechanics Continuum mechanics Differential Equations Mathematical and Computational Biology Mathematical Physics Engineering Fluid Dynamics Continuum Mechanics
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Sommario/riassunto	This book aims to face particles in flows from many different, but essentially interconnected sides and points of view. Thus the selection of authors and topics represented in the chapters, ranges from deep mathematical analysis of the associated models, through the techniques of their numerical solution, towards real applications and physical implications. The scope and structure of the book as well as the selection of authors was motivated by the very successful summer course and workshop "Particles in Flows" that was held in Prague in the August of 2014. This meeting revealed the need for a book dealing with this specific and challenging multidisciplinary subject, i.e. particles in industrial, environmental and biomedical flows and the combination

of fluid mechanics, solid body mechanics with various aspects of specific applications.