

1. Record Nr.	UNINA9910840551603321
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Titolo	Fluid mechanics for chemical engineering [[electronic resource] /] / Mathieu Mory
Pubbl/distr/stampa	London, : ISTE Hoboken, N.J., : Wiley, 2011
ISBN	1-118-61717-7 1-118-61691-X 1-299-31429-5 1-118-61685-5
Edizione	[1st edition]
Descrizione fisica	1 online resource (440 p.)
Collana	ISTE
Classificazione	SCI041000
Disciplina	660.29 660/.29
Soggetti	Chemical processes Fluid dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Elements in fluid mechanics -- pt. 2. Mixing and chemical reactions -- pt. 3. Mechanical separation.
Sommario/riassunto	The book aims at providing to master and PhD students the basic knowledge in fluid mechanics for chemical engineers. Applications to mixing and reaction and to mechanical separation processes are addressed. The first part of the book presents the principles of fluid mechanics used by chemical engineers, with a focus on global theorems for describing the behavior of hydraulic systems. The second part deals with turbulence and its application for stirring, mixing and chemical reaction. The third part addresses mechanical separation processes by considering the dynamics of particles in a fl