1.	Record Nr.	UNINA9910456498203321
	Titolo	Fluid mechanics and pipe flow [[electronic resource]] : turbulence, simulation, and dynamics / / Donald Matos and Cristian Valerio, editors
	Pubbl/distr/stampa	New York, : Nova Science Publishers, 2009
	ISBN	1-61668-990-0
	Descrizione fisica	1 online resource (483 p.)
	Altri autori (Persone)	MatosDonald ValerioCristian
	Disciplina	620.1/06
	Soggetti	Fluid mechanics Pipe - Fluid dynamics Electronic books.
	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	""FLUID MECHANICS AND PIPE FLOW:TURBULENCE, SIMULATION AND DYNAMICS""; ""FLUID MECHANICS AND PIPE FLOW:TURBULENCE, SIMULATIONAND DYNAMICS""; ""CONTENTS""; ""PREFACE""; ""SOLUTE TRANSPORT, DISPERSION, AND SEPARATIONIN NANOFLUIDIC CHANNELS""; ""Abstract""; ""1. Introduction""; ""2. Nomenclature""; ""3. Fluid Flow in Nanochannels""; ""3.1. Electroosmotic Flow""; ""3.2. Pressure-Driven Flow""; ""4. Solute Transport in Nanochannels""; ""5. Solute Dispersion in Nanochannels""; ""5.1. Electroosmotic Flow""; ""5.2. Pressure-Driven Flow""; ""5.3. Neutral Solutes"" ""6. Solute Separation in Nanochannels""""6.1. Selectivity""; ""6.2. Plate Height""; ""6.3. Resolution""; ""7. Conclusion""; ""References""; ""H2O IN THE MANTLE: FROM FLUID TO HIGH-PRESSURE HYDROUS SILICATES""; ""Abstract""; ""Introduction""; ""Samples and Collected Data""; ""Sample Description""; ""H2O Content in the Olivine Samples""; ""Extrinsic H2O in Olivine Samples""; ""Discussion""; ""Olivine as Water Storage in the Mantle""; ""Post-Crystallization H2O Behavior in Olivine""; ""H2O Fluid in Kimberlite Melt""; ""OH-Bearing Nanoinclusions and Intracrystalline H2O Fluid""; ""Conclusion"" ""References""""ON THE NUMERICAL SIMULATION OF TURBULENCE MODULATION IN TWO-PHASE FLOWS""; ""Abstract""; ""Introduction""; ""Conservation Equations""; ""3.1. Gas-Particle and Liquid-Particle

""A REVIEW OF POPULATION BALANCE MODELLING FOR MULTIPHASE
FLOWS: APPROACHES,APPLICATIONS AND FUTURE ASPECTS""