

1. Record Nr.	UNISALENTO991003636819707536
Titolo	Non-newtonian fluid mechanics and complex flows [e-book] : Levico Terme, Italy 2016 / Angiolo Farina, Andro Mikeli, Giuseppe Saccomandi, Adélia Sequeira, Eleuterio F. Toro ; Angiolo Farina, Andro Mikeli, Fabio Rosso, editors
ISBN	9783319747965 3319747967 9783319747958 3319747959
Descrizione fisica	1 online resource (ix, 300 pages) : illustrations (some color)
Collana	Lecture notes in mathematics, 0075-8434 ; 2212
Classificazione	AMS 76-06 AMS 76A05 AMS 92-XX AMS 35-XX
Altri autori (Persone)	Farina, Angioloauthor Mikeli, Androauthor Saccomandi, Giuseppeauthor Sequeira, Adélia Toro, E. F. Rosso, Fabio
Disciplina	519
Soggetti	Non-Newtonian fluids Fluid dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Viscoplastic Fluids: Mathematical Modeling and Applications ; 2. An Introduction to the Homogenization Modeling of Non-Newtonian and Electrokinetic Flows in Porous Media ; 3. Old Problems Revisited From New Perspectives in Implicit Theories of Fluids ; 4. Hemorheology: Non-Newtonian Constitutive Models for Blood Flow Simulations ; 5. Lectures on Hyperbolic Equations and their Numerical Approximation
Sommario/riassunto	This book presents a series of challenging mathematical problems which arise in the modeling of Non-Newtonian fluid dynamics. It

focuses in particular on the mathematical and physical modeling of a variety of contemporary problems, and provides some results. The flow properties of Non-Newtonian fluids differ in many ways from those of Newtonian fluids. Many biological fluids (blood, for instance) exhibit a non-Newtonian behavior, as do many naturally occurring or technologically relevant fluids such as molten polymers, oil, mud, lava, salt solutions, paint, and so on. The term "complex flows" usually refers to those fluids presenting an "internal structure" (fluid mixtures, solutions, multiphase flows, and so on). Modern research on complex flows has increased considerably in recent years due to the many biological and industrial applications

2. Record Nr.	UNINA9910707920803321
Autore	Briggs Maxwell H.
Titolo	Improving power density of free-piston stirling engines / / Maxwell H. Briggs, Joseph M. Prah1 and Kenneth A. Loparo
Pubbl/distr/stampa	Cleveland Ohio : , : National Aeronautics and Space Administration, Glenn Research Center, , December 2016
Descrizione fisica	1 online resource (14 pages) : color illustrations
Collana	NASA/TM ; ; 2016-219383
Soggetti	Free-piston engines Harmonic motion Piston engines Sine waves Stirling engines Thermodynamic efficiency
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"December 2016." "Prepared for the 14th International Energy Conversions Engineering Conference (IECEC) sponsored by the American Institute of Aeronautics and Astronautics, Salt Lake City, Utah, July 25-27, 2016." "AIAA-2016-5016."
Nota di bibliografia	Includes bibliographical references (pages 13-14).

