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Autore	Hempfer, Klaus W.
Titolo	Möglichkeiten des dialogs : Struktur und Funktion einer literarischen Gattung zwischen Mittelalter und Renaissance in Italien / hrsg. Klaus W. Hempfer
Pubbl/distr/stampa	Stuttgart : Steiner, 2002
ISBN	3-515-07953-X
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Collocazione	P.3 B 14326
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Livello bibliografico	Monografia

2. Record Nr.	UNINA9910300115103321
Autore	Bozhko Aleksandra A
Titolo	Convection in Ferro-Nanofluids: Experiments and Theory : Physical Mechanisms, Flow Patterns, and Heat Transfer // by Aleksandra A. Bozhko, Sergey A. Suslov
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
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Soggetti	Computer science - Mathematics Fluid mechanics Thermodynamics Heat engineering Heat - Transmission Mass transfer Mathematical physics Computational Science and Engineering Engineering Fluid Dynamics Engineering Thermodynamics, Heat and Mass Transfer Mathematical Physics
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Nota di contenuto	Ferrofluids: Composition and Physical Processes -- Governing Equations -- Infinite Vertical Layer -- Experimental Methodology -- Thermogravitational Convection -- Thermomagnetic Convection -- Concluding Remarks -- A. Brief Summary of the Used Numerical Approximation -- B. Copyright Permissions.
Sommario/riassunto	This book covers the experimental and theoretical study of convection in non-isothermal ferro-nanofluids (FNFs). Since FNFs are not transparent and magnetic fields are very sensitive to the shape of the boundary between magnetic and nonmagnetic media, special flow visualization techniques based on the use of thermo-sensitive liquid

crystal films, infrared cameras, as well as local and integral temperature sensors are discussed in the book. This book considers several major configurations of convective chambers and the applied magnetic field. For each of them, the stability boundaries are determined theoretically and experimentally. The physical types of dominant instabilities and the characteristics of their interactions are subsequently established using linear and weakly non-linear hydrodynamic stability analyses and elements of bifurcation theory. The book also discusses the potential of using magnetically controlled ferro-nanofluids as a heat carrier in situations where heat removal by natural convection is not possible due to the lack of gravity (orbital stations) or extreme confinement (microelectronics). Researchers and practitioners working in the areas of fluid mechanics, hydrodynamic stability, and heat and mass transfer will benefit from this book.
