

1. Record Nr.	UNINA9910782271503321
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Titolo	Landau-Lifshitz equations [[electronic resource] /] / Boling Guo, Shijin Ding
Pubbl/distr/stampa	New Jersey, : World Scientific, c2008
ISBN	1-281-93002-4 9786611930028 981-277-876-4
Descrizione fisica	1 online resource (414 p.)
Collana	Frontiers of research with the Chinese Academy of Sciences ; ; v. 1
Altri autori (Persone)	DingShijin <1959->
Disciplina	518/.64
Soggetti	Differential equations, Partial - Numerical solutions Maxwell equations - Numerical solutions Geometry Mathematical physics
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 (p. 393-403).
Nota di contenuto	Spin waves and equations of ferromagnetic spin chain -- Integrability of Heisenberg chain -- One-dimensional Landau-Lifshitz equations -- Landau-Lifshitz equations and harmonic maps -- Landau-Lifshitz-Maxwell equations -- Long time behavior of solutions to the system of ferromagnetic spin chain.
Sommario/riassunto	This is a comprehensive introduction to Landau-Lifshitz equations and Landau-Lifshitz-Maxwell equations, beginning with the work by Yulin Zhou and Boling Guo in the early 1980's and including most of the work done by this Chinese group led by Zhou and Guo since. The book focuses on aspects such as the existence of weak solutions in multi dimensions, existence and uniqueness of smooth solutions in one dimension, relations with harmonic map heat flows, partial regularity and long time behaviors. The book is a valuable reference book for those who are interested in partial differential equations