

1. Record Nr.	UNINA9910813204803321
Titolo	Dissipative phase transitions // editors, Pierluigi Colli, Nobuyuki Kenmochi, Jurgen Sprekels
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2006
ISBN	1-281-37888-7 9786611378882 981-277-429-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (321 p.)
Collana	Series on advances in mathematics for applied sciences, , 1793-0901 ; ; v. 71
Altri autori (Persone)	ColliP <1958-> (Pierluigi) KenmochiNobuyuki SprekelsJ
Disciplina	530.4/74
Soggetti	Phase transformations (Statistical physics) Phase transformations (Statistical physics) - Mathematical models Energy dissipation
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.
Nota di contenuto	CONTENTS ; Preface ; Mathematical models including a hysteresis operator ; 1 Introduction ; 2 Mathematical treatment for hysteresis operator ; 2.1 Play operator ; 2.2 Stop operator ; 2.3 The Duhem model ; 3 Shape memory alloys ; 4 Examples of hysteresis operator 4.1 Solid-liquid phase transition 4.2 Biological model ; 4.3 Magnetostrictive thin film multi-layers ; References ; Modelling phase transitions via an entropy equation: long-time behaviour of the solutions ; 1 Introduction ; 2 The model and the resulting PDE's system ; 3 Main results 4 The existence and uniqueness result 4.1 Proof of Theorem 5 ; 5 Uniform estimates on $(0, +\infty)$; 6 The w -limit ; References ; Global solution to

