

1. Record Nr.	UNINA9910480527103321
Autore	Chueshov Igor <1951-2016, >
Titolo	Long-time behavior of second order evolution equations with nonlinear damping // Igor Chueshov, Irena Lasiecka
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2008] ©2008
ISBN	1-4704-0518-0
Descrizione fisica	1 online resource (200 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 912
Disciplina	514/.74
Soggetti	Attractors (Mathematics) Evolution equations, Nonlinear Differentiable dynamical systems Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 195, number 912 (third of 4 numbers)." "September 2008."
Nota di bibliografia	Includes bibliographical references (pages 179-182) and index.
Nota di contenuto	""Contents""; ""Preface""; ""Chapter 1. Introduction""; ""1.1. Description of the problem studied""; ""1.2. The model and basic assumption""; ""1.3. Well-posedness""; ""Chapter 2. Abstract results on global attractors""; ""2.1. Criteria for asymptotic smoothness of dynamical systems""; ""2.2. Criteria for finite dimensionality of attractors""; ""2.3. Exponentially attracting positively invariant sets""; ""2.4. Gradient systems""; ""Chapter 3. Existence of compact global attractors for evolutions of the second order in time""; ""3.1. Ultimate dissipativity"" ""3.2. Asymptotic smoothness: the main assumption""""3.3. Global attractors in subcritical case""; ""3.4. Global attractors in critical case""; ""Chapter 4. Properties of global attractors for evolutions of the second order in time""; ""4.1. Finite dimensionality of attractors""; ""4.2. Regularity of elements from attractors""; ""4.3. Rate of stabilization to equilibria""; ""4.4. Determining functionals""; ""4.5. Exponential fractal attractors (inertial sets)""; ""Chapter 5. Semilinear wave equation with a nonlinear dissipation""; ""5.1. The model""; ""5.2. Main results""; ""5.3. Proofs""

""Chapter 6. Von Karman evolutions with a nonlinear dissipation""";
6.1. The model"; ""6.2. Properties of von Karman bracket"; ""6.3. Abstract setting of the model"; ""6.4. Model with rotational forces: $I_{\pm} > 0$ ";
""6.5. Non-rotational case $I_{\pm} = 0$ "; ""Chapter 7. Other models from continuum mechanics"; ""7.1. Berger's plate model"; ""7.2. Mindlin-Timoshenko plates and beams"; ""7.3. Kirchhoff limit in Mindlin-Timoshenko plates and beams"; ""7.4. Systems with strong damping";
""Bibliography"; ""Index"; ""A""; ""B""; ""C""; ""D""; ""E""; ""F""; ""G""; ""H"";
""I""; ""K""; ""L""; ""M""
""N""; ""O""; ""P""; ""R""; ""S""; ""U""
