

1. Record Nr.	UNINA9910299496403321
Titolo	Localized Excitations in Nonlinear Complex Systems : Current State of the Art and Future Perspectives // edited by Ricardo Carretero-González, Jesús Cuevas-Maraver, Dimitri Frantzeskakis, Nikos Karachalios, Panayotis Kevrekidis, Faustino Palmero-Acebedo
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-02057-9
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (435 p.)
Collana	Nonlinear Systems and Complexity, , 2195-9994 ; ; 7
Disciplina	519
Soggetti	Statistical physics Dynamical systems Solid state physics Computational complexity System theory Physics Applied mathematics Engineering mathematics Complex Systems Solid State Physics Complexity Mathematical Methods in Physics Mathematical and Computational Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Nonlinear Schrödinger Models: Continuum and Discrete Solitons and their Ghosts in PT-Symmetric Systems with Defocusing Nonlinearities -- Coding of Nonlinear States for NLS-Type Equations with Periodic Potential -- Nonreciprocal Wave Propagation Through Open, Discrete Nonlinear Schrödinger dimers -- Breather Solutions of the discrete p-Schrödinger.
Sommario/riassunto	The study of nonlinear localized excitations is a long-standing

challenge for research in basic and applied science, as well as engineering, due to their importance in understanding and predicting phenomena arising in nonlinear and complex systems, but also due to their potential for the development and design of novel applications. This volume is a compilation of chapters representing the current state-of-the-art on the field of localized excitations and their role in the dynamics of complex physical systems.
