

1. Record Nr.	UNINA9910454326903321
Titolo	Energy localisation and transfer [[electronic resource] /] / editors, Thierry Dauxois ... [et al.]
Pubbl/distr/stampa	River Edge, NJ, : World Scientific, c2004
ISBN	1-281-93475-5 9786611934750 981-279-486-7
Descrizione fisica	1 online resource (428 p.)
Collana	Advanced series in nonlinear dynamics ; ; v. 22
Altri autori (Persone)	DauxoisT <1967-> (Thierry)
Disciplina	539/.6
Soggetti	Energy transfer Molecular dynamics Josephson junctions Electronic books.
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 and index.
Nota di contenuto	CONTENTS ; Preface ; CHAPTER 1 COMPUTATIONAL STUDIES OF DISCRETE BREATHERS ; 1 Introduction ; 2 A bit on numerics of solving ODEs ; 3 Observing and analyzing breathers in numerical runs ; 3.1 Targeted initial conditions ; 3.2 Breathers in transient processes 3.3 Breathers in thermal equilibrium 4 Obtaining breathers up to machine precision: Part I ; 4.1 Method No.1 - designing a map ; 4.2 Method No.2 - saddles on the rim with space-time separation ; 4.3 Method No.3 - homoclinic orbits with time-space separation 5 Obtaining breathers up to machine precision: Part II 5.1 Method No.4 - Newton in phase space ; 5.2 Method No.5 - steepest descent in phase space ; 5.3 Symmetries ; 6 Perturbing breathers ; 6.1 Linear stability analysis ; 6.2 Plane wave scattering 7 Breathers in dissipative systems 7.1

Obtaining dissipative breathers	; 7.2
Perturbing dissipative breathers	; 8
Computing quantum breathers	; 8.1 The dimer
; 8.2 The trimer	; 8.3 Quantum roto-breathers
; 9 Some applications instead of conclusions	
; Acknowledgments	; References
CHAPTER 2 VIBRATIONAL SPECTROSCOPY AND QUANTUM LOCALIZATION	
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Introduction	; 1.1 Nonlinear dynamics and energy localization
and vibrational spectroscopy	; 1.2 Nonlinear dynamics and vibrational spectroscopy
Vibrational spectroscopy techniques	; 2
Some definitions	; 2.1
2.3 Neutron scattering techniques	; 2.2 Optical techniques

Sommario/riassunto

This book provides an introduction to localised excitations in spatially discrete systems, from the experimental, numerical and mathematical points of view. Also known as discrete breathers, nonlinear lattice excitations and intrinsic localised modes, these are spatially localised time periodic motions in networks of dynamical units. Examples of such networks are molecular crystals, biomolecules, and arrays of Josephson superconducting junctions. The book also addresses the formation of discrete breathers and their potential role in energy transfer in such systems.
<i>Contents:</i>

2. Record Nr.	UNISA996247913603316
Autore	Middlekauff Robert
Titolo	The Mathers : three generations of Puritan intellectuals, 1596-1728 // Robert Middlekauff
Pubbl/distr/stampa	Berkeley, : University of California Press, 1999
ISBN	1-280-08963-6 9786613520333 0-520-92311-1 0-585-07910-2
Edizione	[1st University of California Press paperback.]
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Disciplina	285/.8/0922744 B
Soggetti	Puritans - Massachusetts Massachusetts Intellectual life 17th century Massachusetts Intellectual life 18th century
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Note generali	Originally published: New York : Oxford University Press, 1971.
Nota di bibliografia	Includes bibliographic references (p. 369-427) and index.
Nota di contenuto	Front matter -- Preface to the Paperback Edition -- Notes -- Preface -- Contents -- BOOK ONE. RICHARD MATHER (1596-1669): HISTORY -- BOOK TWO. INCREASE MATHER (1639-1723): TYPOLOGY -- BOOK THREE. COTTON MATHER (1663-1728): PROPHECY -- Notes -- Index
Sommario/riassunto	In this classic work of American religious history, Robert Middlekauff traces the evolution of Puritan thought and theology in America from its origins in New England through the early eighteenth century. He focuses on three generations of intellectual ministers-Richard, Increase, and Cotton Mather-in order to challenge the traditional telling of the secularization of Puritanism, a story of faith transformed by reason, science, and business. Delving into the Mathers' private papers and unpublished writings as well as their sermons and published works, Middlekauff describes a Puritan theory of religious experience that is more creative, complex, and uncompromising than traditional accounts have allowed. At the same time, he portrays changing ideas and patterns of behavior that reveal much about the first hundred years of American life.

