

1. Record Nr.	UNISALENTO991000857859707536
Autore	Hackbusch, Wolfgang
Titolo	Elliptic differential equations : theory and numerical treatment / W. Hackbusch ; translated from the German by Regine Fadiman and Patrick D. F. Ion
Pubbl/distr/stampa	Berlin : Springer-Verlag, c1992
ISBN	354054822X
Descrizione fisica	xiv, 311 p. : ill. ; 24 cm
Collana	Springer series in computational mathematics, 0179-3632 ; 18
Classificazione	AMS 35A40 AMS 35J
Soggetti	Elliptic differential equations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes bibliographical references and index

2. Record Nr.	UNINA9910300429803321
Autore	Limes Mark E
Titolo	129 Xe Relaxation and Rabi Oscillations // by Mark E. Limes
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-13632-1
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (151 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	538.3
Soggetti	Spectrum analysis Microscopy Low temperatures Spectroscopy and Microscopy Low Temperature Physics Spectroscopy/Spectrometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A dissertation submitted to the faculty of The University of Utah in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Physics."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Longitudinal Relaxation in Solid ¹²⁹ Xe -- Dipolar and Exchange Coupling Between Carrier Pairs in Disordered Semiconductors Undergoing Resonance -- Low-Frequency Modulation of Longitudinal Field: Modified Rabi Envelopes.
Sommario/riassunto	This thesis describes longitudinal nuclear relaxation measurements of solid ¹²⁹ Xe near 77 K with previously unattainable reproducibility, and demonstrates differences in relaxation, dependent upon the way in which the solid is condensed. These results are directly applicable to the generation and storage of large quantities of hyperpolarized ¹²⁹ Xe for various applications, such as lung magnetic resonance imaging (MRI). The thesis features a sophisticated theoretical approach to these data sets, including modifications to a well-established Raman-phonon scattering theory that may explain the larger scatter in and discrepancies with previous work.