1. Record Nr. UNINA9910780787103321

Autore	Ashenden Peter J
Titolo	Digital design [[electronic resource]] : an embedded systems approach using Verilog / / Peter J. Ashenden
Pubbl/distr/stampa	Burlington, : Morgan Kaufmann Amsterdam, : Elsevier, c2008
ISBN	1-283-39612-2 9786613396129 0-08-055311-7
Descrizione fisica	1 online resource (579 p.)
Disciplina	621.39/16
Soggetti	Embedded computer systems Verilog (Computer hardware description language) System design
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	Front Cover
Sommario/riassunto	Digital Design: An Embedded Systems Approach Using Verilog provides a foundation in digital design for students in computer engineering, electrical engineering and computer science courses. It takes an up-to-date and modern approach of presenting digital logic design as an activity in a larger systems design context. Rather than focus on aspects of digital design that have little relevance in a realistic design context, this book concentrates on modern and evolving knowledge and design skills. Hardware description language (HDL)-based design and verification is emphasized--Veril

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Record Nr.	UNINA9910139243103321
Autore	Geru Ion
Titolo	Resonance Effects of Excitons and Electrons : Basics and Applications / / by Ion Geru, Dieter Suter
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-35807-1
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (XVII, 283 p. 36 illus., 14 illus. in color.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 869
Disciplina	530.4/16
Soggetti	Solid state physics Optical materials Electronics - Materials Spectrum analysis Microscopy Lasers Photonics Semiconductors Materials science Solid State Physics Optical and Electronic Materials Spectroscopy and Microscopy Optics, Lasers, Photonics, Optical Devices Characterization and Evaluation of Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (pages 259-276) and index.
Nota di contenuto	Excitons and Biexcitons in Semiconductors -- Paramagnetic and Paraelectric Resonances of Excitons -- Exciton Acoustical Resonance -- Double Resonances -- Investigations of Excitons by Means of NMR Spectroscopy -- Interaction of Excitons with Paramagnetic Centers -- Effects of Deep Saturation.
Sommario/riassunto	This book presents the various types of resonance effects on excitons, biexcitons and the local electronic centers (LEC) in solids, such as paramagnetic and paraelectric resonances on excitons, exciton acoustic

resonance at intra- and interband transitions, radio-optical double resonance on excitons, hole-nuclear double resonance on localized biexcitons, ENDOR and acoustic ENDOR on LEC. The criteria for the generation of coherent photons, phonons and magnons by excitons are explained. The interactions of excitons and biexcitons with paramagnetic centers and nuclear spins, the indirect interaction between the PC through a field of excitons as well as the quasienergy spectrum of excitons and spin systems are discussed. It is proved that the interaction of paramagnetic centers with excitons increases the spin relaxation rate of paramagnetic centers in comparison with the case of their interaction with free carriers. The giant magneto-optical effects in semi-magnetic semiconductors are theoretically interpreted. In recent years, a new perspective has been added to these systems and their interactions: they can be used for storing and processing information in the form of quantum bits (qubits), the building blocks of quantum computers. The basics of this emerging technology are explained and examples of demonstration-type quantum computers based on localized spins in solids are discussed.