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Titolo	Quantum dots [[electronic resource] /] / editors, E. Borovitskaya, Michael S. Shur
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Descrizione fisica	1 online resource (214 p.)
Collana	Selected topics in electronics and systems ; ; vol. 25
Altri autori (Persone)	BorovitskayaE (Elena) ShurMichael
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Soggetti	Quantum dots Energy levels (Quantum mechanics) Semiconductors 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.
Nota di contenuto	CONTENTS ; Low-Dimensional Systems ; Energy States in Quantum Dots ; 1. Introduction ; 2. Description of Pseudopotential Techniques ; 2.1. Calculation of the strain profile ; 2.2. Constructing the single particle Hamiltonian ; 3. Recent Applications 3.1. Pyramidal quantum dots: Single particle electron and hole states 3.2. Lens shaped dots: The effect of changing the shape and composition profile ; 3.3. Multiple-exciton states in self-assembled quantum dots ; References ; Self-Organized Quantum Dots ; 1 Introduction 2 Quantum Dot Self-Assembly 2.1 Equilibrium properties of coherent 3D islands ; 2.2 Formation and evolution of coherent 3D islands ; 3 Self-Organization of 3D island ""Quantum Dots"" ; 3.1 Single Layers ; 3.2 Multilayers ; 3.3 Summary and Outlook ; References Growth Structures and Optical Properties of Ill-Nitride Quantum Dots 1. Introduction ; 2. Growth and Structures

; 2.1 MBE ; 2.2 MOCVD ; 2.3 Other Techniques ; 3. Optical Properties of Ill-Nitride QDs ; 3.1 Effects of quantum confinement strain and polarization ; 3.2 GaN quantum dots 3.3 InGaN quantum dots 4. Summary ; References ; Theory of Threshold Characteristics of Quantum Dot Lasers: Effect of Quantum Dot Parameter Dispersion ; 1. Introduction ; 2. Basic Equations ; 3. Gain Spectrum and Spontaneous Radiative Recombination Current 3.1. Equilibrium filling of QDs (relatively high temperatures and/or shallow potential wells)

Sommario/riassunto

In this book, leading experts on quantum dot theory and technology provide comprehensive reviews of all aspects of quantum dot systems. The following topics are covered: (1) energy states in quantum dots, including the effects of strain and many-body effects; (2) self-assembly and self-ordering of quantum dots in semiconductor systems; (3) growth, structures, and optical properties of III-nitride quantum dots; (4) quantum dot lasers.
Contents: Low-Dimensional Systems (E Borovitskaya & M S Shur) Energy States in Quantum Dots (A J Williamson) Sel

2. Record Nr. UNISA996386718003316

Autore	Younge Richard
Titolo	Cordiall councell [[electronic resource]] : in a patheticall epistle: first written to an eminent professor of religion, for the seasonable preventing of a relaps. Which proving efficacious, is again revised, enlarged, and published for the good of others. As being applyable to many thousands, whose practise is neither answerable to the Gospel, their Christian profession, nor the millions of mercies they have received / By R. Junius
Pubbl/distr/stampa	London, : Printed by Tho. Paine, and are to be sold by James Crump, in little Bartholomewes Well-yard., 1645
Descrizione fisica	[2], 10 p
Soggetti	Christian life Conduct of life
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	R. Junius = Richarde Younge, whose name appears on the title page of later editions. A variant has "pateticall" and "efficatious" in title. Annotation on Thomason copy: "March: 21 1644"; the 5 in imprint date is crossed out. Reproduction of the original in the British Library.
Sommario/riassunto	eebo-0018