1.	Record Nr.	UNISA996466683303316
	Autore	Jüngel Ansgar
	Titolo	Transport Equations for Semiconductors [[electronic resource] /] / by Ansgar Jüngel
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
	ISBN	3-540-89526-4
	Edizione	[1st ed. 2009.]
	Descrizione fisica	1 online resource (XVII, 315 p. 27 illus.)
	Collana	Lecture Notes in Physics, , 0075-8450 ; ; 773
	Disciplina	537.622
	Soggetti	Solid state physics
		Spectroscopy
		Microscopy
		Optical materials
		Electronic materials
		Physics
		Solid State Physics
		Spectroscopy and Microscopy
		Optical and Electronic Materials
		Mathematical Methods in Physics
	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 and index.
	Nota di contenuto	Basic Semiconductor Physics -- Microscopic Semi-Classical Models -- Derivation of Macroscopic Equations -- Collisionless Models -- Scattering Models -- Macroscopic Semi-Classical Models -- Drift-Diffusion Equations -- Energy-Transport Equations -- Spherical Harmonics Expansion Equations -- Diffusive Higher-Order Moment Equations -- Hydrodynamic Equations -- Microscopic Quantum Models -- The Schr#x00F6;dinger Equation -- The Wigner Equation -- Macroscopic Quantum Models -- Quantum Drift-Diffusion Equations -- Quantum Diffusive Higher-Order Moment Equations -- Quantum Hydrodynamic Equations.
	Sommario/riassunto	Semiconductor devices are ubiquitous in the modern computer and telecommunications industry. A precise knowledge of the transport equations for electron flow in semiconductors when a voltage is applied

is therefore of paramount importance for further technological breakthroughs. In the present work, the author tackles their derivation in a systematic and rigorous way, depending on certain key parameters such as the number of free electrons in the device, the mean free path of the carriers, the device dimensions and the ambient temperature. Accordingly a hierarchy of models is examined which is reflected in the structure of the book: first the microscopic and macroscopic semi-classical approaches followed by their quantum-mechanical counterparts.

2.

Record Nr.	UNISA996396026403316
Autore	Marlorat Augustin <1506-1562.>
Titolo	Propheticæ, et apostolicæ, id est, totius diuinæ ac canonicæ Scripturæ, thesaurus [[electronic resource]] : in locos communes rerum, dogmatum suis diuinis exemplis illustratorum, et phraseon Scripturæ familiarium, ordine alphabetico digestus. Ex Augustini Marlorati aduersariis a Guiliel. Feuguereio in codicem relatus
Pubbl/distr/stampa	Londini, : Excudebat Thomas Vautrollerius typographus, Anno M.D. LXXIII. [1574]
Descrizione fisica	[2+] p
Soggetti	Title pages16th century.England
Lingua di pubblicazione	Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	At foot of title: Cum priuilegio RegiÃ¦ Maiestatis. Contains printer's device (McK. 170). Fragments: title page, verso and imprint only. Reproduction of original in the British Library.
Sommario/riassunto	eebo-0018