Record Nr.	UNINA9910450673803321
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Titolo	Multigroup equations for the description of the particle transport in semiconductors [[electronic resource] /] / Martin Galler
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2005
ISBN	1-281-90577-1 9786611905774 981-270-338-1
Descrizione fisica	1 online resource (247 p.)
Collana	Series on advances in mathematics for applied sciences ; ; v. 70
Disciplina	530.13/8
Soggetti	Transport theory - Mathematics Semiconductors - Mathematics 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 (p. 217-223) and index.
Nota di contenuto	Preface; Contents; 1. Introduction; 2. The Bloch-Boltzmann-Peierls Equations; 3. Multigroup Model Equations for Polar Semiconductors; 4. Particle Transport in Indium Phosphide; 5. Particle Transport in Gallium Arsenide; 6. Multigroup Equations for Degenerated Carrier Gases; 7. The Two-dimensional Electron Gas; 8. The Multigroup-WENO Solver for Semiconductor Device Simulation; 9. Simulation of Silicon Devices; 10. Simulation of Gallium Arsenide Devices; 11. Conclusion; Bibliography; Related Publications of the Author; Index
Sommario/riassunto	Deterministic simulation of the particle transport in semiconductor devices is an interesting alternative to the common Monte Carlo approach. In this book, a state-of-the-art technique called the multigroup approach is presented and applied to a variety of transport problems in bulk semiconductors and semiconductor devices. High- field effects as well as hot-phonon phenomena in polar semiconductors are studied in detail. The mathematical properties of the presented numerical method are studied, and the method is applied to simulating the transport of a two-dimensional electron gas formed at a s

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