

1. Record Nr.	UNINA9910144601103321
Autore	Anile Angelo Marcello
Titolo	Mathematical Problems in Semiconductor Physics : Lectures given at the C.I.M.E. Summer School held in Cetraro, Italy, June 15-22, 1998 / / by Angelo Marcello Anile, Walter Allegretto, Christian Ringhofer ; edited by Angelo Marcello Anile
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-45222-2
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (XII, 152 p.)
Collana	C.I.M.E. Foundation Subseries ; ; 1823
Disciplina	621.38152015118
Soggetti	Physics Optical materials Electronics - Materials Computer-aided engineering Differential equations, Partial Computer science - Mathematics Mathematical physics Mathematical Methods in Physics Optical and Electronic Materials Computer-Aided Engineering (CAD, CAE) and Design Partial Differential Equations Computational Mathematics and Numerical Analysis Theoretical, Mathematical and Computational 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.
Nota di contenuto	Preface -- A. M. Anile, G. Mascali, V. Romano: Recent Developments in Hydrodynamical Modelling of Semiconductors -- W. Allegretto: Drift-Diffusion Equations and Applications -- C. Ringhofer: Kinetic and Gas-Dynamic Models for Semiconductor Transport.
Sommario/riassunto	The C.I.M.E. session on Mathematical Problems in Semiconductor Physics, was addressed to researchers with a strong interest in the mathematical aspects of the theory of carrier transport in

semiconductor devices. The subjects covered include hydrodynamical models for semiconductors based on the maximum entropy principle of extended thermodynamics, mathematical theory of drift-diffusion equations with applications, and the methods of asymptotic analysis.
