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tool necessary to handle the
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complexities of real
semiconductor devices. The
dimensions of an
electrically active region
(e.g., gate) are typically
in fractions of a micrometer
while the thickness of
circuit topology features

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(e.g., lines, metallization,
pads) can vary from a few
tens to a few thousands of
angstroms.

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of carrier transport,
develops numerical
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transport problems or device
simulations, and presents
real-world examples of
implementation.

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continues a series of
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initiated in 1984 by K.

Board and D. R. J. Owen at

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took place a second time in

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1986. Its organization was succeeded by G. Baccarani and M. Rudan at the University of Bologna in 1988, and W. Fichtner and D. Aemmer at the Federal Institute of Technology in Zurich in 1991. This year

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the conference is held at
the Technical University of
Vienna, Austria, September 7
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results in the area of
numerical process and de
vice simulation. The
miniaturization of today's
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usage of new materials and
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suggests the design of new
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Numerical modeling of nonstationary transport effects using partial differential equations derived from the Boltzmann Transport Equation (BTE) is investigated. Augmented

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and improved energy
transport (ET) models for
submicron device simulation
are constructed and
numerically implemented.
Analytical derivation of the
length coefficient for the

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ADD models is presented for both single- and multi-valley approximations.

Results of typical n^+ - n - n^+ ballistic diodes for Si and GaAs are presented.

The extension of the ADD model to two dimensions is

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then formulated, and the implementation problems with the standard box integration method, as used in conventional drift-diffusion (DD) models, are examined. Improved ET models are derived from the zeroth and

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second moments of the Boltzmann transport equation and from the presumed function form of the even part of the distribution function. Energy band nonparabolicity and non-Maxwellian distribution

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effects are included to first order. The ET models are amenable to an efficient self-consistent discretization, with standard techniques, taking advantage of the similarity between current and energy

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flow equations. Numerical results for ballistic diodes and MOSFETs are presented.

Typical spurious velocity overshoot spikes, obtained in conventional hydrodynamics simulations of ballistic diodes, are

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virtually eliminated. By comparing the formulation of the ET and HD models, we find that the spurious spike is caused by the momentum relaxation time approximation and the resulting form of the

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thermal diffusion terms.

Calculations based on a two-carrier-population model, at the anode junction, further confirm our analysis of the spurious spike.

This monograph is the first

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on physics-based simulations of novel strained Si and SiGe devices. It provides an in-depth description of the full-band monte-carlo method for SiGe and discusses the common theoretical background of the drift-

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Partial Contents: LSI layout
verification system using

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