

HIGH FIELD TRANSPORT IN SEMICONDUCTOR%0A

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[High-field transport in wide-band-gap semiconductors ...](#)
The drift velocity in high electric fields is calculated for several wide-band-gap semiconductors. Saturated velocities above 10^7 cm/sec are found for several and SiC, diamond, and GaN hold promise for values above $2 \cdot 10^7$ cm/sec.

[High-Field Transport in Semiconductor Superlattices ...](#)
It describes how the physics of high field transport has been investigated through a broad range of experimental techniques such as interband and intraband optical spectroscopy and transport experiments. Possible applications and further trends are also discussed.

[High field transport in semiconductors, The drifted ...](#)
They are averaged exactly over the drifted Maxwellian distribution function, from which the high field transport characteristics of semiconductors can be calculated. The formulae are expressed in terms of a generalised band structure, and the effect of the mixing of Bloch states with spin-reversal scattering is included.

[High field transport in semiconductor \(Book, 1967 ...](#)
Get this from a library! High field transport in semiconductors. [Ester M Conwell]

[Aspects of High-Field Transport in Semiconductor ...](#)
This chapter focuses on the new developments in the general area of high-field transport, and is also intended to provide a bridge in the information gap between scientists working on device modeling and others working on the basic physics of hot electrons.

[Theory of high-field transport in semiconductor ...](#)
The authors present a theoretical framework for the transport of charge carriers in semiconductor multiple-quantum-well structures for motion perpendicular to the layers.

[High-field transport in semiconductor superlattices \(eBook ...](#)
High-field transport in semiconductor superlattices. [Karl Leo] -- The purpose of this book is to review the current state of this quickly developing field. Up until now, there has been no concise review available of the rather diverse aspects of this field. This

[Carrier Transport - Electrical, Computer & Energy Engineering](#)
The carrier motion in the semiconductor in the absence and in the presence of an electric field can therefore be visualized as in Figure 2.7.2. Figure 2.7.2 : Random motion of carriers in a semiconductor with and without an

applied electric field.

High Field Transport in Semiconductors (1967) - CiteSeerX

This paper first reviews some basic facts about electron transport in semiconductor materials. Then, it develops several macroscopic models from the diffusion approximation of the semiconductor Boltzmann equation.

High-field transport in graphene: the impact of Zener ...

...

We study, theoretically, the impact of Zener tunneling (the generation of electron-hole pairs by the electric field) on the charge-transport properties of graphene in the high-field regime.

High-field electron transport in doped ZnO

in the low-field channel resistance measured before and after the high-field experiment. We present the results. We present the results up to a damage level not exceeding 5%.

On high field transport in a ferromagnetic semiconductor ...

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High-field transport in semiconductors. II. Collision ...

Abstract The collision duration time τ_{CD} (a short time scale $< 10^{-14}$ s) is estimated for an equilibrium nondegenerate semiconductor. For interaction with nonpolar optical phonons, it is shown that there is one common scale τ_{CD} for both the scattering-in and scattering-out integrals.

High-field miniband transport in semiconductor ...

Miniband transport in semiconductor superlattices in high electric and magnetic fields aligned parallel to the symmetry axis is studied within a quantum-kinetic approach that accounts for intra-collisional field effects of both fields and the heating of the lateral electron motion.

Modelling of small-signal response and electronic noise in ...

We present a survey on the theoretical modelling of the small-signal response and noise associated with velocity fluctuations in semiconductor high-field transport.