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Fundamentals of Carrier Transport

In Chapter 3 we introduced the Boltzmann Transport Equation (BTE) as an alternative to calculating the position and momentum versus time for each carrier within a device. The BTE is usually very ...

Chapter 6: Monte Carlo Simulation

We might have expected to associate applied electric fields with electric currents and temperature gradients with heat currents, but electrons transport both charge and heat, so the two flows are ...

Chapter 4: Low-field transport

Yin, Longxiang Fang, Minquaan Zeng, Lang Zhang, Lilun Du, Gang and Liu, Xiaoyan 2015. Accelerated 3D full band self-consistent ensemble Monte Carlo device simulation utilizing intel MIC co-processors ...

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