



# The Wigner Monte-Carlo Method for Nanoelectronic Devices: A Particle Description of Quantum Transport and Decoherence

*Damien Querlioz, Philippe Dollfus*

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This book gives an overview of the quantum transport approaches for nanodevices and focuses on the Wigner formalism. It details the implementation of a particle-based Monte Carlo solution of the Wigner transport equation and how the technique is applied to typical devices exhibiting quantum phenomena, such as the resonant tunnelling diode, the ultra-short silicon MOSFET and the carbon nanotube transistor. In the final part, decoherence theory is used to explain the emergence of the semi-classical transport in nanodevices.

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