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This is a clearly written, well-organized book on nanoelectronics.

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This chapter defines an important area of physics we call the physics of nanoscale electronics. The core concepts of non-equilibrium, size effects and neighboring perturbation are introduced and a quick run through the emerging topics including metal spintronics, semiconductor spintronics, single electronics and quantum dot, molecular electronics, carbon nanotube transistors and graphene electronics is provided.

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nanotechnology have allowed physicists and engineers to miniaturize electronic structures to the limit where finite-size related phenomena start to impact their properties.

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Since 1985 he has focused on current flow in nanoscale electronic

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devices and the approach pioneered by his group for the description of quantum transport, combining the non-equilibrium Green function (NEGF) formalism of many-body physics with the Landauer formalism from mesoscopic physics, has been widely adopted in the field of nanoelectronics.

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