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Foreword 1. Prologue - electrical resistance: an atomistic view 2. Schrodinger equation 3. Self-consistent field 4. Basis functions 5. Bandstructure 6. Subbands 7. Capacitance 8. Level broadening 9. Coherent transport 10. Non-coherent transport 11. Atom to transistor Epilogue Appendix/advanced formalism Selected

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Systems (Cambridge 1995) and Quantum Transport: Atom to Transistor (Cambridge 2005) and he was elected to the US National Academy of Engineering (NAE) for this work. Datta is also well-known for his contributions to spin electronics and molecular electronics.

nanoHUB.org - Courses: ECE 659: Quantum TransportA three-dimensional simulation of quantum transport in silicon nanowire transistor in the presence of electron-phonon interactions. Journal of Applied Physics, Vol. 99, Issue. 12, p. 123719. CrossRef

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