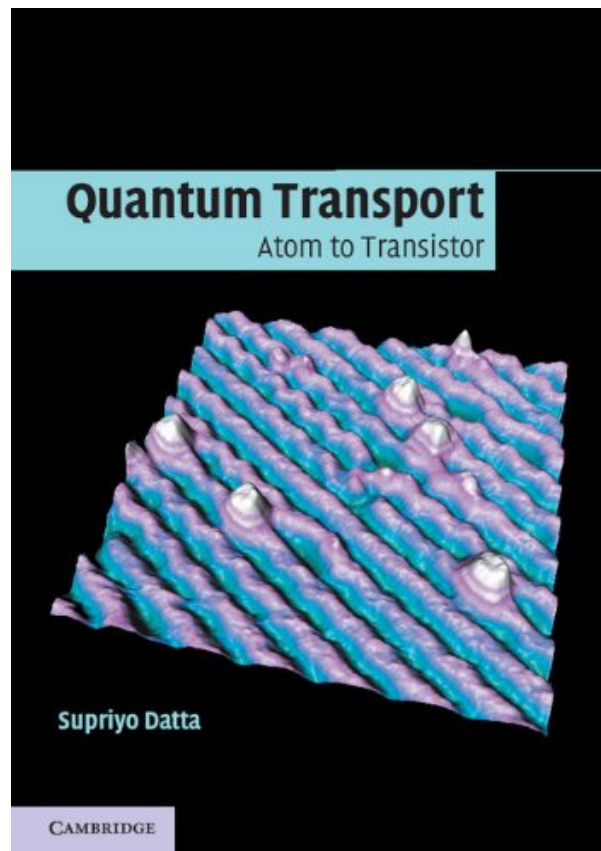
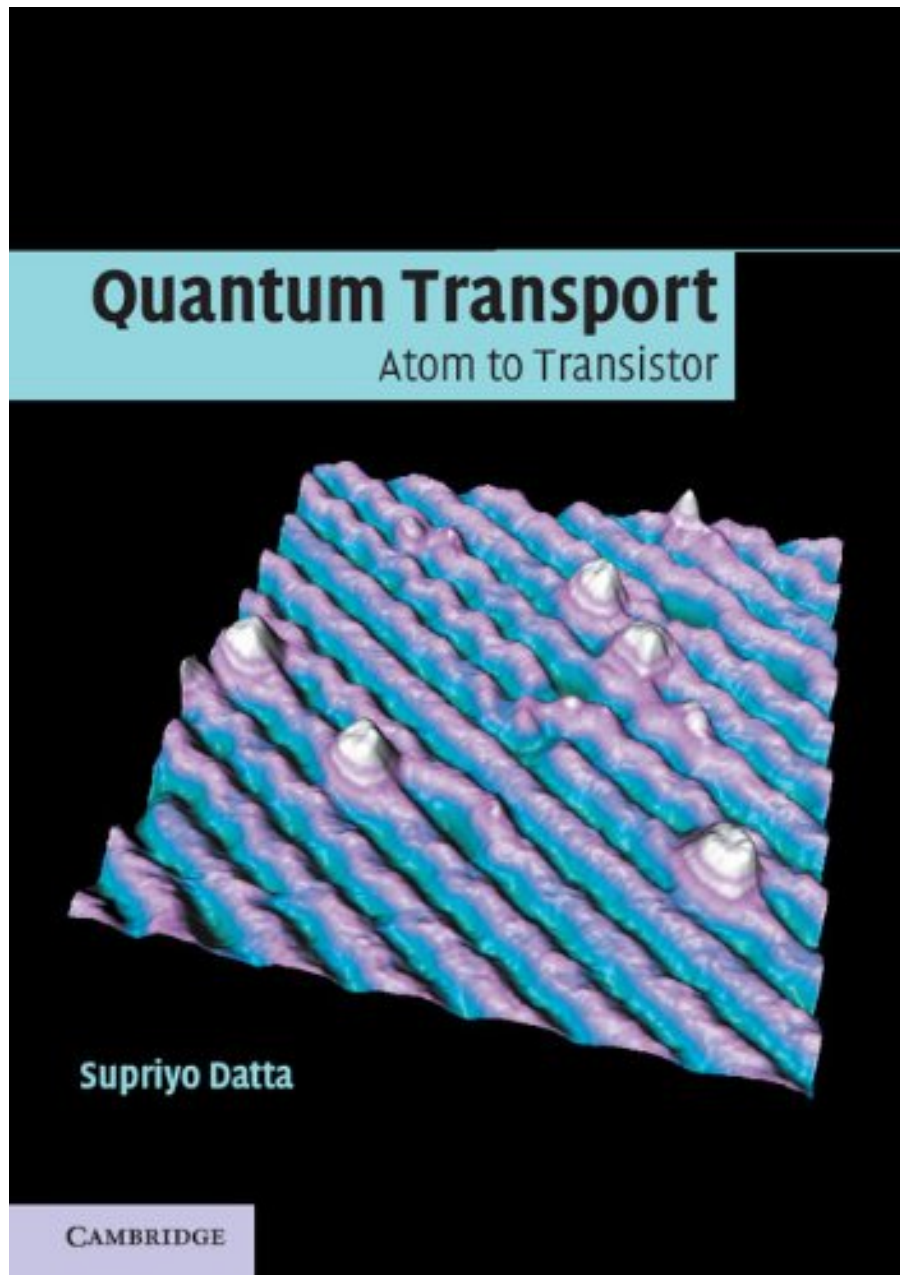


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Review

"In recent years, scientists have developed a powerful practical technique based on Green function methods for calculating transport through small open systems. Supriyo Datta is one of its leading exponents and his new textbook makes a valiant and fascinating effort to use the formalism to provide a simple exposition of quantum transport on the atomic scale ... It is more accessible, more embracing and a much better read than his earlier monograph ... It contains excellent examples, good breadth and progressive detail, and is of real value to electronic engineers, physicists, and chemists researching modern interdisciplinary nanoelectronics."
Chemistry World

"Molecular transport phenomena in junctions is a very 'hot' area, that is best understood in terms of quantum transport phenomena in general. This book, by one of the true leaders in this field, presents and clarifies molecular transport in the context of the larger quantum transport area. The text is lucid, masterful, understandable and unified. The numerical examples and MATLAB codes combine with the discussions to provide a strongly integrated and very readable overview of the field."

Mark Ratner, Professor of Chemistry, Northwestern University, Illinois

"A lucid treatment of what's destined to be the "ext big thing" for electrical engineers - conduction at the atomic scale - eminently suitable for students and professionals alike. The generous use of examples and clarifying remarks, together with the novel approach of sequentially building up transport theory from the 'bottom up' and a genuine flair for effortlessly bringing together salient aspects of physics and engineering makes this a very useful book, indeed."

Dr Steve Laux, IBM, Yorktown Heights

About the Author

Supriyo Datta is the Thomas Duncan Distinguished Professor in the School of Electrical and Computer Engineering at Purdue University. He is also the Director of the NASA Institute for Nanoelectronics and Computing. He is a Fellow of the IEEE, the American Physical Society (APS) and the Institute of Physics (IOP) and has authored three other books.

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