



## Single-Atom Nanoelectronics

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Single-Atom Nanoelectronics covers the fabrication of single-atom devices and related technology, as well as the relevant electronic equipment and the intriguing new phenomena related to single-atom and single-electron effects in quantum devices. It also covers the alternative approaches related to both silicon- and carbon-based technologies, also from the point of view of large-scale industrial production. The publication provides a comprehensive picture of the state of the art at the cutting edge and constitutes a milestone in the emerging field of beyond-CMOS technology.

Although there are numerous publications on nanoelectronics, no book highlights the effect of a single atom on device performance, which can be beneficial for making extensive use of CMOS technologies. This book is the first to deal with topics related to single-atom control, which is the final frontier for nanoelectronics.

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