

## Quantum Technology

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Quantum Technology introduces the readers to the fundamentals, materials, and devices for quantum technology applications. The author provides the reader with the key principles of quantum and solid-state physics, and electronic, magnetic and low-dimensional materials. Then, he introduces important advances towards realization of quantum technology such as quantum computing, quantum electronics, and cryogenics. Throughout, the author explores how understanding of materials, physics and nanotechnology can lead to practical implementation and design of devices and new technologies. Enabling technologies that underpin the design of materials, devices, and applications are also discussed. Quantum Technology is suitable for materials scientists, engineers and physicists working towards the realization of quantum technologies. It may be also of interest to computer scientists working in this area.

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