



2D Materials for Nanoelectronics (Series in Materials Science and Engineering)

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Major developments in the semiconductor industry are on the horizon through the use of two-dimensional (2D) materials, such as graphene and transition metal dichalcogenides, for integrated circuits (ICs). **2D Materials for Nanoelectronics** is the first comprehensive treatment of these materials and their applications in nanoelectronic devices.

Comprised of chapters authored by internationally recognised researchers, this book:

- Discusses the use of graphene for high-frequency analog circuits
- Explores logic and photonic applications of molybdenum disulfide (MoS₂)
- Addresses novel 2D materials including silicene, germanene, stanene, and phosphorene
- Considers the use of 2D materials for both field-effect transistors (FETs) and logic circuits
- Provides background on the simulation of structural, electronic, and transport properties from first principles

2D Materials for Nanoelectronics presents extensive, state-of-the-art coverage of the fundamental and applied aspects of this exciting field.

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