

Bionanoelectronics: bioinquiring and bioinspired devices

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Abstrak

This book presents the achievements in bionanoelectronics in a coherent manner. It deals with nanodevices applied to biostructures, molecular motors, molecular pumps, molecular nanoactuators and electronic biodevices, including nanodevices for sensing and imaging biomolecules. The book describes bionanoelectronics, detection of biomolecules and targets various biological applications such as detection and sequencing of DNA and early detection of various diseases and nanomedicine. Further important topics of the book are biomimetics and bioinspired electronics. The book also deals with biomolecules as building blocks of nanodevices for nanoelectronics or future computing architecture. The application of scanning probe techniques to biological samples is described.