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Electron Transport in DNA Molecules

By Lee, Sunhee / Joe, Yong

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Temperature and magnetic fields effects on the electron transport through two-dimensional and four-channel DNA model | DNA molecules possess high density genetic information in living beings, as well as self-assembly and self-recognition properties that make them excellent candidates for many scientific areas, from medicine to nanotechnology. The process of electron transport through DNA is important because DNA repair occurs spontaneously via the process that restores mismatches and lesions, and furthermore, DNA-based molecular electronics in nano-bioelectronics can be possible through the process. Our work considers a one-dimensional one-channel DNA model, a quasi-one-dimensional one-channel DNA model, and a two-dimensional four-channel DNA model by studying the transport properties such as overall contour plots of transmission, localization lengths, the Lyapunov exponent, and current-voltage characteristics as a function of incoming electron energy and magnetic flux. The behavior of these characteristics is analyzed depending on the system parameters, temperature effects, and magnetic flux effects. The study of quantum mechanical electron transport through DNA molecule will enhance understanding of the electrical properties of DNA, both for assessment and repair of damage, and to explore charge- | Format: Paperback | Language/Sprache: english | 84 pp.



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