



# Quantum Biological Information Theory

*Ivan B. Djordjevic*

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## Quantum Biological Information Theory Ivan B. Djordjevic

This book is a self-contained, tutorial-based introduction to quantum information theory and quantum biology. It serves as a single-source reference to the topic for researchers in bioengineering, communications engineering, electrical engineering, applied mathematics, biology, computer science, and physics. The book provides all the essential principles of the quantum biological information theory required to describe the quantum information transfer from DNA to proteins, the sources of genetic noise and genetic errors as well as their effects.

- Integrates quantum information and quantum biology concepts;
- Assumes only knowledge of basic concepts of vector algebra at undergraduate level;
- Provides a thorough introduction to basic concepts of quantum information processing, quantum information theory, and quantum biology;
- Includes in-depth discussion of the quantum biological channel modelling, quantum biological channel capacity calculation, quantum models of aging, quantum models of evolution, quantum models on tumor and cancer development, quantum modeling of bird navigation compass, quantum aspects of photosynthesis, quantum biological error correction.



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