Molecular Communication

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This comprehensive guide, by pioneers in the field, brings together, for the first time, everything a new researcher, graduate student or industry practitioner needs to get started in molecular communication. Written with accessibility in mind, it requires little background knowledge, and provides a detailed introduction to the relevant aspects of biology and information theory, as well as coverage of practical systems.

The authors start by describing biological nanomachines, the basics of biological molecular communication, and the microorganisms that use it. They then proceed to engineered molecular communication and the molecular communication paradigm, with mathematical models of different types of molecular communication, and a description of the information and communication theory of molecular communication. Finally, the practical aspects of designing molecular communication systems are presented, including a review of the key applications.

Ideal for engineers and biologists looking to get up to speed on the current practice in this growing field.

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