A highly useful resource for professionals and students alike, this cutting-edge, first-of-its-kind book provides a thorough introduction to nanoscale communication networks. Written in a clear tutorial style, this volume covers a wide range of the most important topics in the area, from molecular communication and carbon nanotube nanonetworks to nanoscale quantum networking and the future direction of nanonetworks. Serving as an excellent textbook for related courses, this book features numerous exercise problems at the end of each chapter to ensure a solid understanding of the material.

Contents Overview:
- Towards Nanonetworks
- Molecular Motor Communication
- Gap Junction and Cell Signaling
- Carbon Nanotube-Based Nanonetworks
- Nanoscale Quantum Networking
- Information Theory and Nanonetworks
- Architectural Questions
- Nanoscale and Molecular Communication Network Simulation Tools

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