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**US\$**  
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eISBN: 978-1-60805-986-7

# Open Quantum Physics and Environmental Heat Conversion into Usable Energy

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## About the ebook

This eBook explains mathematical and statistical concepts essential for describing a realistic quantum system by presenting recent contributions in this field. The book covers of the basics of quantum mechanics, statistical physics, and physics of open quantum systems. The book concludes with the study of a quantum heat converter in the framework of an all-microscopic theory.

### Contents

- ▶ Quantum dynamics
- ▶ Dissipative dynamics
- ▶ Axiomatic open quantum physics
- ▶ Quantum tunneling with dissipative coupling
- ▶ Atom-field interaction with dissipative coupling
- ▶ Microscopic open quantum physics
- ▶ Open hydrogen atom
- ▶ Quantum heat converter

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