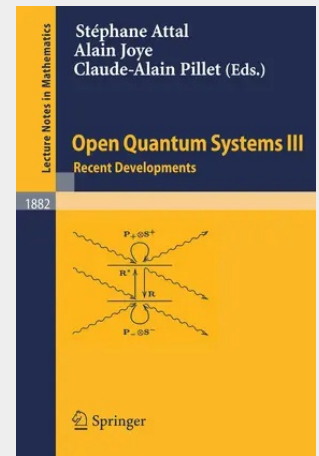


Open Quantum Systems III

Recent Developments

This volume is the third and last of a series devoted to the lecture notes of the Grenoble Summer School on "Open Quantum Systems" which took place at the Institut Fourier from June 16 to July 4 2003. The contributions presented in this volume correspond to an expanded version of the lecture notes provided by the authors to the students of the Summer School. The corresponding lectures were scheduled in the last part of the School devoted to recent developments in the study of Open Quantum Systems. Whereas the first two volumes were dedicated to a detailed exposition of the mathematical techniques and physical concepts relevant in the study of Open Systems with no a priori pre-requisites, the contributions presented in this volume request from the reader some familiarity with these aspects. Indeed, the material presented here aims at leading the reader already acquainted with the basics in ? quantum statistical mechanics, spectral theory of linear operators, C -dynamical systems, and quantum stochastic differential equations to the front of the current research done on various aspects of Open Quantum Systems. Nevertheless, pedagogical efforts have been made by the various authors of these notes so that this volume should be essentially self-contained for a reader with minimal previous exposure to the themes listed above. In any case, the reader in need of complements can always turn to these first two volumes. The topics covered in these lectures notes start with an introduction to non-equilibrium quantum statistical mechanics.

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