

1. Record Nr.	UNISA990005493090203316
Autore	TARIS, Toon
Titolo	A primer in longitudinal data analysis / Toon Taris
Pubbl/distr/stampa	London ; Thousand Oaks ; New Delhi : Sage Publications, 2000
ISBN	0-76196-027-9
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Disciplina	001.4225
Soggetti	Metodi statistici
Collocazione	000 001.4225 TAR
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Formato	Materiale a stampa
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2. Record Nr.	UNINA9910865259003321
Autore	Merino Jaime
Titolo	Many-Body Techniques in Condensed Matter Physics : Lecture Notes and Exercises for an Introductory Course // by Jaime Merino, Alfredo Levy Yeyati
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
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Collana	UNITEXT for Physics, , 2198-7890
Altri autori (Persone)	YeyatiAlfredo Levy
Disciplina	530.41
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Nota di contenuto

Introduction to many-particle physics in Condensed Matter -- Introduction to Green-function methods -- Perturbation theory at zero temperature -- Finite temperature Green function formalism -- Linear response and collective modes -- Generalized Green function propagator -- Introduction to non-equilibrium: the Keldysh contour -- Perturbative expansion in the non-equilibrium formalism -- Applications: electron transport at the nanoscale -- Introduction to path integral methods -- Application of path integral methods: the renormalization group approach -- Hints for solving exercises.

Sommario/riassunto

This book presents the lecture notes and exercises corresponding to the course "Quantum Field Theoretical Methods in Condensed Matter" that the authors imparted for several years as part of the masters program on Condensed Matter and Biological Systems at the Autonoma University of Madrid. It provides a step-by-step description of the material which will benefit not only professors wishing to undertake a similar task, but also interested students. Additionally, the book provides a complete set of exercises on the various topics along with hints about how to solve them, a feature frequently absent in textbooks on many-body techniques. As well as addressing the traditional topics in the field (diagrammatic techniques, screening in metals, Fermi liquid theory, electron-phonon interactions, etc.) the text also covers less conventional topics such as the application of non-equilibrium Green function techniques to quantum transport in normal and superconducting nanoscale devices.
