

[Mobile pdf] File size: 49.Mb

A Modern Introduction to Quantum Field Theory

OXFORD MASTER SERIES IN STATISTICAL,
COMPUTATIONAL, AND THEORETICAL PHYSICS

A Modern Introduction to Quantum Field Theory

Michele Maggiore



Par Michele Maggiore

*ePub | *DOC | audiobook | ebooks |*

Download PDF

Détails sur le produit Rang parmi les ventes : #841256 dans eBooksPubli le: 2004-11-25Sorti le: 2004-11-25Format: Ebook Kindle

[Mobile pdf] A Modern Introduction to Quantum Field Theory

Par Michele Maggiore : A Modern Introduction to Quantum Field Theory before purchasing it in order to gauge whether or not it would be worth my time, and all praised A Modern Introduction to Quantum Field Theory:

 **Download**

 **Read Online**

Description :

Présentation de l'éditeurThe importance and the beauty of modern quantum field theory resides in the power and variety of its methods and ideas, which find application in domains as different as particle physics, cosmology, condensed matter, statistical mechanics and critical phenomena. This book introduces the reader to the modern developments, assuming no previous knowledge of quantum field theory. Along with standard topics like Feynman diagrams, the book discusses effective lagrangians, renormalization group equations, the path integral formulation, spontaneous symmetry breaking and non-abelian gauge theories. The inclusion of more advanced topics will also make this a most useful book for graduate students and researchers. Revue de presseAiming at graduate students, this novel textbook on the theory of quantum fields differs from any other existing books on the same subject since it focuses on the generality of its methods and ideas rather than on its power as a calculational tool. (Gert Roepstorff, Zentralblatt MATH, Vol 1078, 2006)The author gives a nice conceptual discussion of divergences in loop amplitudes, the need to renormalize, and how both

renormalization group...he manages to convey the main ideas without getting lost in technical details. (Physics Today)All in all, Maggiore's approach is precisely the one that should be taken in an undergraduate course: Introduce the "big" ideas and leave the computational and thornier technical details for subsequent courses. (Physics Today)Presentation de l'auteurThe importance and the beauty of modern quantum field theory resides in the power and variety of its methods and ideas, which find application in domains as different as particle physics, cosmology, condensed matter, statistical mechanics and critical phenomena. This book introduces the reader to the modern developments, assuming no previous knowledge of quantum field theory. Along with standard topics like Feynman diagrams, the book discusses effective lagrangians,renormalization group equations, the path integral formulation, spontaneous symmetry breaking and non-abelian gauge theories. The inclusion of more advanced topics will also make this a most useful book for graduate students and researchers.