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This book provides a review of the application of quantum field theory to condensed matter systems, introducing important techniques in condensed matter theory. About the

Author Ramamurti Shankar is the John Randolph Huffman Professor of Physics at

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Yale University,
Connecticut, with a
research focus in
theoretical condensed
matter physics.

Quantum Field Theory
and Condensed Matter:
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This is an approachable
introduction to the
important topics and
recent developments in
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Theory as seen through the eyes of a theorist working in condensed matter physics. It contains a gentle introduction to the subject and therefore can be used even by graduate students. The introductory parts include a derivation of the path integral representation, Feynman diagrams and elements

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of the theory of metals
including a discussion
of Landau-Fermi liquid
theory.

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of introductory and
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unique perspective on
the quantum field theory

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minimally complicated models is central to the field of condensed-matter physics. Those models, and the tools needed to understand them, are the subject of Ramamurti Shankar's new book, *Quantum Field Theory and Condensed Matter: An Introduction*.

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Lec 3: Quantising the
classical field; Lec 4:
Second quantisation;
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derivation of the path
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Feynman diagrams and

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elements of the theory of metals. Alexei Tsvelik also covers Landau Fermi liquid theory and gradually turns to more advanced methods used in the theory of strongly correlated systems.

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In theoretical physics,

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Quantum field theory (QFT) is a theoretical framework that combines classical field theory, special relativity and quantum mechanics, but not general relativity's description of gravity. QFT is used in particle physics to construct physical models of subatomic particles and in

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condensed matter
physics to construct
models of
quasiparticles.

Quantum field theory -
Wikipedia

We study signatures of
quantum chaos in
(1+1)D Quantum Field
Theory (QFT) models.
Our analysis is based on
the method of
Hamiltonian truncation,

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a numerical approach for the construction of low-energy spectra and eigenstates of QFTs that can be considered as perturbations of exactly solvable models. We focus on the double sine-Gordon, also studying the massive sine-Gordon and ϕ^4 model ...

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physics. [N Nagaosa] --

This book covers a
broad range of
important topics and
recent developments in
this field. First, the
general language of
quantum field theory is
developed in a way
appropriate for dealing

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Theory (QFT) is the
mathematical and
conceptual framework
for contemporary
elementary particle

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Theory. It is also a framework used in other areas of theoretical physics, such as condensed matter physics and statistical mechanics.

Quantum Field Theory
(Stanford Encyclopedia
of Philosophy)

Quantum Field Theory
and Condensed Matter:
An Introduction

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Ramamurti Shankar

Providing a broad review of many techniques and their application to condensed matter systems, this book begins with a review of thermodynamics and statistical mechanics, before moving onto real and imaginary time path integrals and the link between Euclidean

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quantum mechanics and
statistical mechanics.

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Fradkin is a condensed
matter theorist, and has
worked on gauge
theory, frustrated and
disordered systems,
classical and quantum
critical phenomena,
strongly correlated

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systems, fractional
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The topics range from
the Ising model,
Majorana fermions, the
renormalization group,
and the quantum hall
effect. The book has
"Quantum Field
Theory" in the title, and

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I think the reader should ideally have taken quantum field theory before trying to tackle this book.

Amazon.com: Customer reviews: Quantum Field Theory and ...

In physics, an effective field theory is a type of approximation, or effective theory, for an underlying physical

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Theory, such as a quantum field theory or a statistical mechanics model. An effective field theory includes the appropriate degrees of freedom to describe physical phenomena occurring at a chosen length scale or energy scale, while ignoring substructure and degrees of freedom at shorter distances. Intuitively,

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one averages over the
behavior of the
underlying theory at
shorter length

Effective field theory -
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