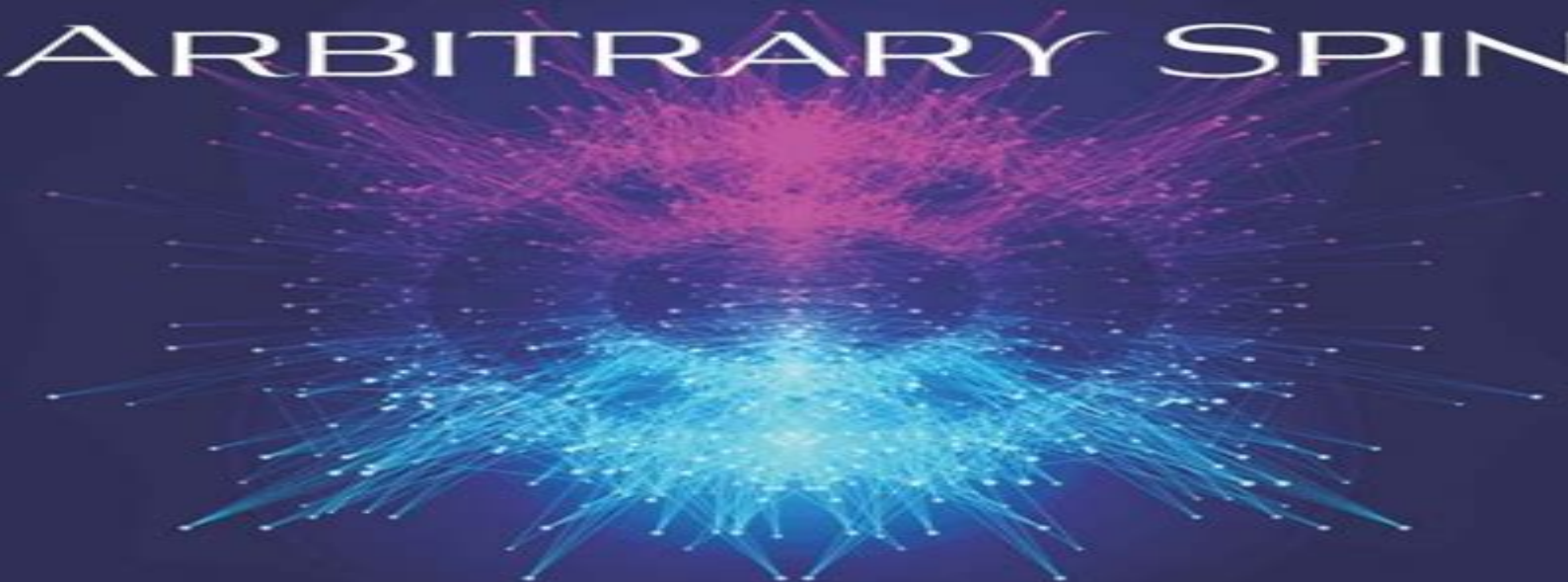


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Relativistic Quantum Mechanics And Field Theory

Franz Gross



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text and problems at the end of most chapters the book is ideal for advanced undergraduate and graduate students in theoretical physics

Relativistic Quantum Mechanics and Field Theory Franz Gross, 2008-07-11 An accessible comprehensive reference to modern quantum mechanics and field theory In surveying available books on advanced quantum mechanics and field theory Franz Gross determined that while established books were outdated newer titles tended to focus on recent developments and disregard the basics Relativistic Quantum Mechanics and Field Theory fills this striking gap in the field With a strong emphasis on applications to practical problems as well as calculations Dr Gross provides complete up to date coverage of both elementary and advanced topics essential for a well rounded understanding of the field Developing the material at a level accessible even to newcomers to quantum mechanics the book begins with topics that every physicist should know quantization of the electromagnetic field relativistic one body wave equations and the theoretical explanation of atomic decay Subsequent chapters prepare readers for advanced work covering such major topics as gauge theories path integral techniques spontaneous symmetry breaking and an introduction to QCD chiral symmetry and the Standard Model A special chapter is devoted to relativistic bound state wave equations an important topic that is often overlooked in other books Clear and concise throughout Relativistic Quantum Mechanics and Field Theory boasts examples from atomic and nuclear physics as well as particle physics and includes appendices with background material It is an essential reference for anyone working in quantum mechanics today

Foundations Of Quantum Field Theory Klaus D Rothe, 2020-09-03 Based on a two semester course held at the University of Heidelberg Germany this book provides an adequate resource for the lecturer and the student The contents are primarily aimed at graduate students who wish to learn about the fundamental concepts behind constructing a Relativistic Quantum Theory of particles and fields So it provides a comprehensive foundation for the extension to Quantum Chromodynamics and Weak Interactions that are not included in this book

Relativistic Quantum Mechanics Luciano Maiani, Omar Benhar, 2015-11-18 Written by two of the most prominent leaders in particle physics Relativistic Quantum Mechanics An Introduction to Relativistic Quantum Fields provides a classroom tested introduction to the formal and conceptual foundations of quantum field theory Designed for advanced undergraduate and graduate level physics students the text only requires p

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