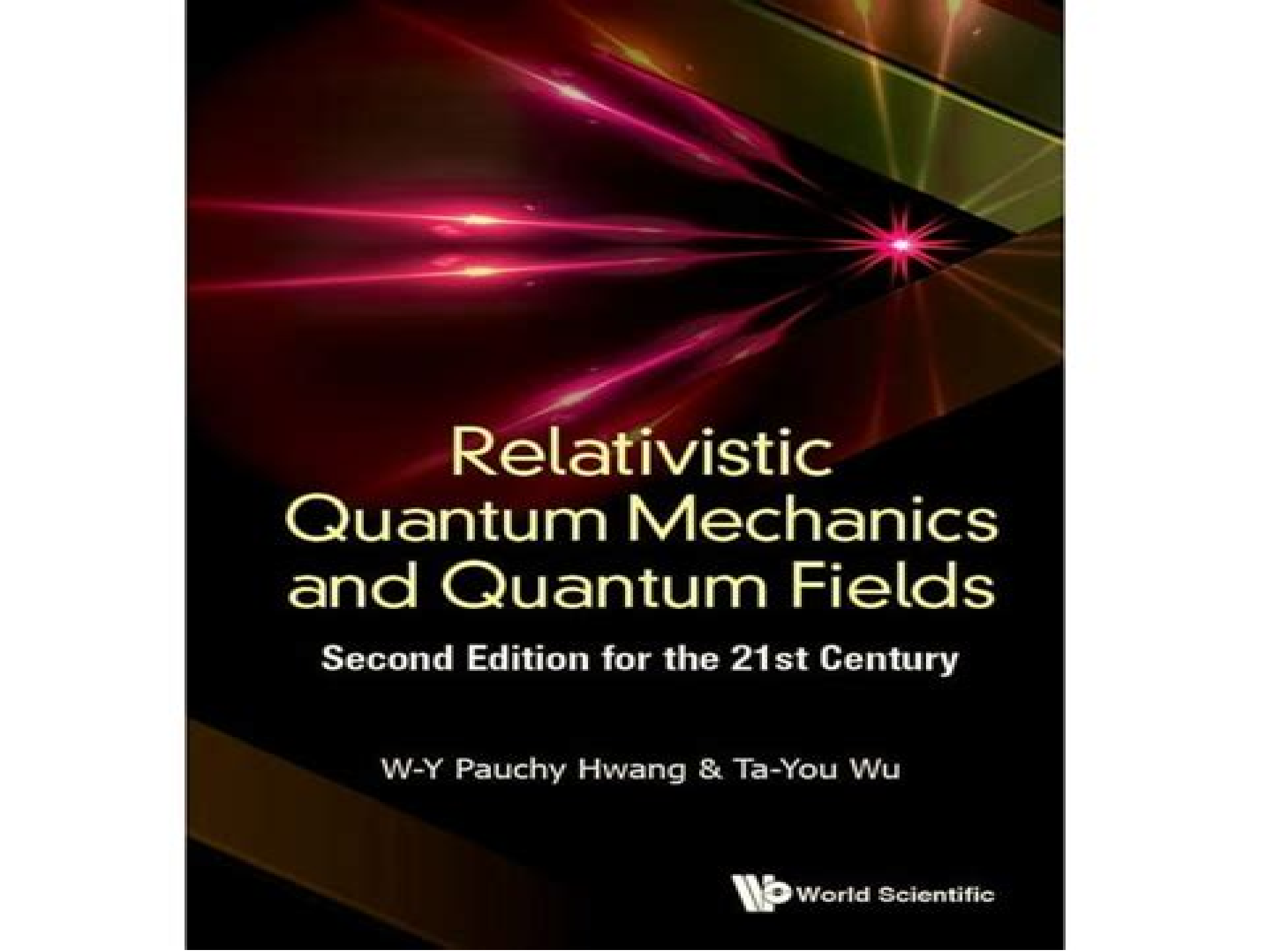




Relativistic Quantum Mechanics and Quantum Fields

Second Edition for the 21st Century

W-Y Pauchy Hwang & Ta-You Wu

Relativistic Quantum Mechanics And Quantum Fields

Luciano Maiani, Omar Benhar



Relativistic Quantum Mechanics And Quantum Fields:

Relativistic Quantum Mechanics and Quantum Fields Ta-you Wu, W.-Y. Pauchy Hwang, 1991 A sequel to the well received book Quantum Mechanics by T Y Wu this book carries on where the earlier volume ends This present volume follows the generally pedagogic style of Quantum Mechanics The scope ranges from relativistic quantum mechanics to an introduction to quantum field theory with quantum electrodynamics as the basic example and ends with an exposition of important issues related to the standard model The book presents the subject in basic and easy to grasp notions which will enhance the purpose of this book as a useful textbook in the area of relativistic quantum mechanics and quantum electrodynamics

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 *Relativistic Quantum Mechanics And Quantum Fields: Second Edition For The 21st Century* Pauchy W-y Hwang, 2018-04-26 This present edition of the book follows the generally pedagogic style of Quantum Mechanics The scope ranges from relativistic quantum mechanics to an introduction to quantum field theory with quantum electrodynamics as the basic example and ends with an exposition of important issues related to the standard model The book presents the subject in basic and easy to grasp notions which will enhance the purpose of this book as a useful textbook in the area of relativistic quantum mechanics and quantum electrodynamics An Introduction to Relativistic Quantum Field Theory Silvan S. Schweber, 2005-06-17 In a relatively simple presentation that remains close to familiar concepts this text for upper level undergraduates and graduate students introduces modern developments of quantum field theory Combines thorough knowledge with a high degree of didactic ability and a delightful style Mathematical Reviews 1961 edition *Relativistic Quantum Mechanics And Quantum Fields* R. L. Katiyar, 2001 **Relativistic**

Quantum Mechanics and Quantum Fields Ta-you Wu, 1991 **Relativistic Quantum Mechanics and Introduction to Quantum Field Theory** Anton Z. Capri, 2002 This invaluable textbook is divided into two parts The first part includes a detailed discussion on the discrete transformations for the Dirac equation as well as on the central force problem for the Dirac equation In the second part the external field problem is examined pair production and vacuum polarization leading to charge renormalization are treated in detail Relativistic Quantum Mechanic s and Introduction to Quantum Field Theory has arisen from a graduate course which the author taught for several years at the University of Alberta to students interested in particle physics and field theory **Relativistic Quantum Mechanics and Introduction to Field Theory** Francisco J. Yndurain, 2012-12-06 A fully relativistic treatment of the quantum mechanics of particles requires the introduction of quantum field theory that is to say the quantum mechan ics of systems with an infinite number of degrees of freedom This is because the relativistic equivalence of mass and energy plus the quantum possibility of fluctuations imply the existence of

real or virtual creation and annihilation of particles in unlimited numbers In spite of this there exist processes and energy ranges where a treatment in terms of ordinary quantum mechanical tools is appropriate and the approximation of neglecting the full field theoretic description is justified Thus one may use concepts such as potentials and wave equations classical fields and classical currents etc The present text is devoted precisely to the systematic discussion of these topics to which we have added a general description of one and two particle relativistic states in particular for scattering processes A field theoretic approach may not be entirely avoided and in fact an introduction to quantum field theory is presented in this text However field theory is not the object per se of this book apart from a few examples field theory is mainly employed to establish the connection with equivalent potentials to study the classical limit of the emission of radiation or to discuss the propagation of a fermion in classical electromagnetic fields Relativistic Quantum Physics Tommy Ohlsson, 2011-09-22

Quantum physics and special relativity theory were two of the greatest breakthroughs in physics during the twentieth century and contributed to paradigm shifts in physics This book combines these two discoveries to provide a complete description of the fundamentals of relativistic quantum physics guiding the reader effortlessly from relativistic quantum mechanics to basic quantum field theory The book gives a thorough and detailed treatment of the subject beginning with the classification of particles the Klein Gordon equation and the Dirac equation It then moves on to the canonical quantization procedure of the Klein Gordon Dirac and electromagnetic fields Classical Yang Mills theory the LSZ formalism perturbation theory elementary processes in QED are introduced and regularization renormalization and radiative corrections are explored With exercises scattered through the 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 & Quantum Fields* Ta-yu Wu, 1989

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