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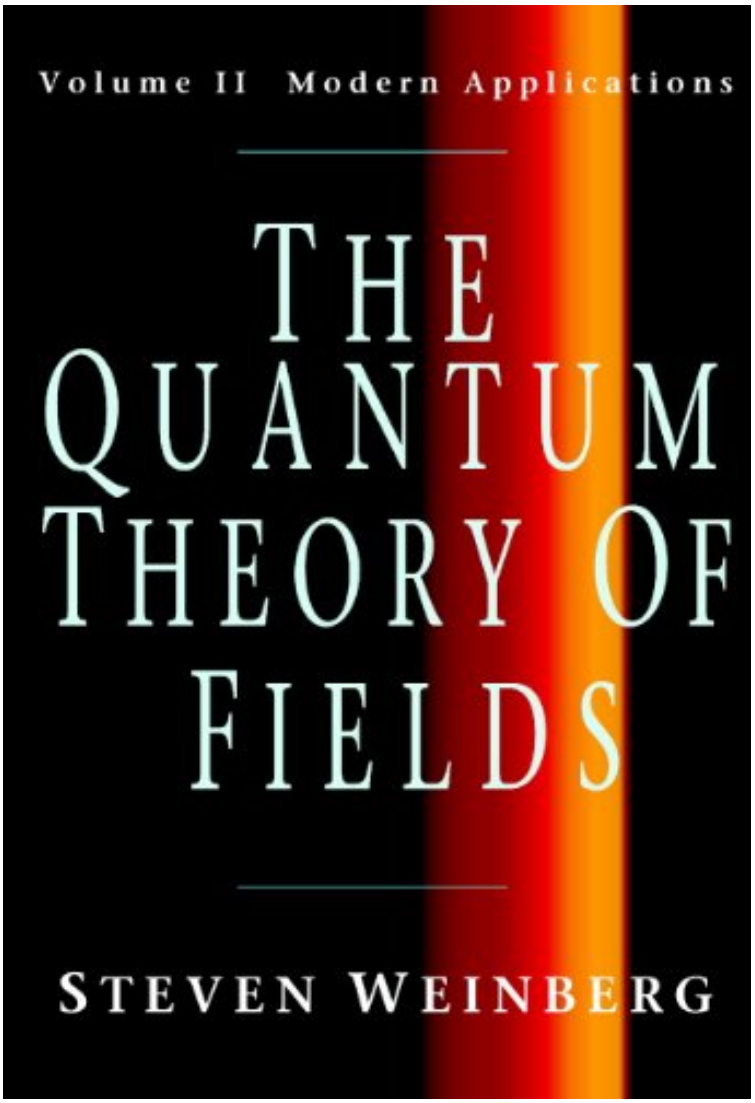
# The Quantum Theory of Fields: Volume 2, Modern Applications

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Prsentation de l'diteurThe Quantum Theory of Fields, first published in 1996, is a self-contained, comprehensive introduction to quantum field theory from Nobel Laureate Steven Weinberg. Volume II gives an account of the methods of quantum field theory, and how they have led to an understanding of the weak, strong, and electromagnetic interactions of the elementary particles. The presentation of modern mathematical methods is throughout interwoven with accounts of the problems of elementary particle physics and condensed matter physics to which they have been applied. Many topics are included that are not usually found in books on quantum field theory. The book is peppered with examples and insights from the author's experience as a leader of elementary particle physics. Exercises are included at the end of each

chapter.Revue de presse'The insight and depth of treatment which singles this book out from others in this field can be largely attributed to Weinberg's authority as an originator of many of the ideas in the book Experienced researchers and beginning graduate students alike will delight in the gems of wisdom to be found in these pages. This book combines exposition of technical detail with physical insight in a unique manner that confirms the promise of Volume 1 and I have no doubt that these two volumes will rapidly constitute the classic treatment of this important subject.' Michael B. Green, CERN Courier' a clear presentation of the subject, explaining the underlying concepts in much depth and in an accessible style. I expect that these volumes will become the first source we turn to when trying to answer the challenging questions asked by bright postgraduates when they first encounter quantum field theory I have no doubt that The Quantum Theory of Fields will soon be found on the bookshelves of most particle theorists, and that it will be one of the main sources used in the preparation of lectures on the subject for postgraduate students.' C. T. C. Sachrajda, The Times Higher Education Supplement'This is not a book for the casual reader, nor for the faint-hearted. But the serious reader willing to put in the effort will find it an excellent book from which to learn. Weinberg never sacrifices clarity of understanding to elegance of presentation. Nor is he content to present the formal developments; he always adds specific calculations that show them in action and make them concrete His two volumes will be a valued reference and a mine of useful information for professional field theorists.' Tom Kibble, New Scientist' an impressive work.' Jean Zinn-Justin, Physics World'Weinberg's Modern Applications goes to the boundaries of our present understanding of field theory. It is unmatched by any other book on quantum field theory for its depth, generality and definitive character, and it will be an essential reference for serious students and researchers in elementary particle physics.' O. W. Greenberg, Physics TodayIt is a majestic exposition I find it hard to imagine a better treatment of quantum field theory than Weinberg's.' John C. Taylor, Nature' Steven Weinberg is one of our most gifted makers of theoretical tools as well as a virtuoso in their use. His new book conveys both the satisfaction of understanding nature and the feel of the atelier, for the 'modern applications' of its subtitle include both the derivation of physical consequences and the development of new tools for understanding and applying field theory itself Modern Applications is a splendid book, with abundant useful references to the original literature. It is a very interesting read from cover to cover, for the wholeness Weinberg's personal perspective gives to quantum field theory and particle physics.' Chris Quigg, Science' Weinberg has produced a masterpiece that will be a standard reference on the field for a long time to come'. B. E. Y. Svensson, ElementaPrsentation de l'diteurThe Quantum Theory of Fields, first published in 1996, is a self-contained, comprehensive introduction to quantum field theory from Nobel Laureate Steven Weinberg. Volume II gives an account of the methods of quantum field theory, and how they have led to an understanding of the weak, strong, and electromagnetic interactions of the elementary particles. The presentation of modern mathematical methods is throughout interwoven with accounts of the problems of elementary particle physics and condensed matter physics to which they have been applied. Many topics are included that are not usually found in books on quantum field theory. The book is peppered with examples and insights from the author's experience as a leader of elementary particle physics. Exercises are included at the end of each chapter.