Chicago Lectures in Physics

Quantum Field Theory in Curved Spacetime and Black Hole Thermodynamics

Robert M. Wald

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By Robert M. Wald

The University of Chicago Press. Paperback. Book Condition: new. BRAND NEW, Quantum Field Theory in Curved Spacetime and Black Hole Thermodynamics, Robert M. Wald, In this book, Robert Wald provides a pedagogical introduction to the formulation of quantum field theory in curved spacetime. He begins with a treatment of the ordinary one-dimensional quantum harmonic oscillator, progresses through the construction of quantum field theory in flat spacetime to possible constructions of quantum field theory in curved spacetime, and, ultimately, to an algebraic formulation of the theory. In his presentation, Wald disentangles essential features of the theory from inessential ones (such as a particle interpretation) and clarifies relationships between various approaches to the formulation of the theory. He also provides a comprehensive, up-to-date account of the Unruh effect, the Hawking effect, and some of its ramifications. In particular, the subject of black hole thermodynamics, which remains an active area of research, is treated in depth. This book is intended for students and researchers who have had introductory courses in general relativity and quantum field theory, and should be of interest to scientists in general relativity and related fields.

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Reviews

Thorough guide! Its this sort of excellent read. It is really simplified but unexpected situations in the 50 % in the book. You are going to like just how the blogger create this publication.
-- Prof. Lela Steuber

A very wonderful book with lucid and perfect answers. It is probably the most incredible book i have study. Its been designed in an exceptionally simple way and is particularly just after i finished reading through this publication by which in fact transformed me, alter the way in my opinion.
-- Macey Schneider