

《宇宙学及超距作用电气动力学讲义》

图书基本信息

书名：《宇宙学及超距作用电气动力学讲义LECTURES ON COSMOLOGY AND ACTION-AT-A-DISTANCE ELECTRODYNAMICS》

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内容概要

This book describes the subject of electrodynamics at classical as well as quantum level, developed as an interaction at a distance. Thus it has electric charges interacting with one another directly and not through the medium of a field. In general such an interaction travels forward and backward in time symmetrically, thus apparently violating the principle of causality. It turns out, however, that in such a description the cosmological boundary conditions become very important. The theory therefore works only in a cosmology with the right boundary conditions; but when it does work it is free from the divergences that plague a quantum field theory. 作者简介：Fred Hoyle was born in Yorkshire, England. He studied mathematics at the University of Cambridge, where he eventually became Plumian Professor of Astronomy, and where he founded and was the first director of the Institute of Theoretical Astronomy. His work in research, starting in 1936, was essentially coincidental with the emergence of the problems of quantum electrodynamics as a major topic in theoretical physics. Since that time he has always maintained a strong interest in QED, as the term is now abbreviated to. The present volume covers work in this subject which he began, together with Jayant Narlikar, in the mid-1960's.

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书籍目录

Part : Classical Electrodynamics Lecture : Historical Background Lecture : The Problems of Classical Field Theory Lecture : The Wheeler-Feynman Absorber Theory of Radiation Lecture : Action at a Distance in Curved Spacetime Lecture : Cosmological Models Lecture : Response of the Expanding Universe
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