

<<旋量与时空 (第2卷)>>

图书基本信息

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作者：彭罗斯

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内容概要

This is a companion volume to our introductory work *Spinors and space-time, Volume 1: two-spinor calculus and relativistic fields*. There we attempted to demonstrate something of the power, utility and elegance of 2-spinor techniques in the study of space-time structure and physical fields, and to advocate the viewpoint that spinors may lie closer to the heart of (even macroscopic) physical laws than the vectors and tensors of the standard formalism. Here we carry these ideas further and discuss some important new areas of application. We introduce the theory of twistors and show how it sheds light on a number of important physical questions, one of the most noteworthy being the structure of energy-momentum/angular momentum of gravitating systems. The illumination that twistor theory brings to the discussion of such physical problems should lend further support to the viewpoint of an underlying spinorial structure in basic physical laws.

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作者简介

作者：(英国)彭罗斯 (Penrose.R.)

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