

Travels in Four Dimensions



TRAVELS IN FOUR DIMENSIONS

The Enigmas of Space and Time

ROBIN LE POIDEVIN

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Space and time are the most fundamental features of our experience of the world, and yet they are also the most perplexing. Does time really flow, or is that simply an illusion? Did time have a beginning? What does it mean to say that time has a direction? Does space have boundaries, or is it infinite? Is change really possible? Could space and time exist in the absence of any objects or events? Are our space and time unique, or could there be other, parallel worlds with their own space and time? What, in the end, are space and time? Do they really exist, or are they simply the constructions of our minds? Robin Le Poidevin provides a clear, witty, and stimulating introduction to these deep questions, and many other mind-boggling puzzles and paradoxes. He gives a vivid sense of the difficulties raised by our ordinary ideas about space and time, but he also gives us the basis to think about these problems independently, avoiding large amounts of jargon and technicality. His book is an invitation to think philosophically rather than a sustained argument for particular conclusions, but Le Poidevin does advance and defend a number of controversial views. He argues, for example, that time does not actually flow, that it is possible for space and time to be both finite and yet be without boundaries, and that causation is the key to an understanding of one of the deepest mysteries of time: its direction. "Travels in Four Dimensions" draws on a variety of vivid examples and stories from science, history, and literature to bring its questions to life. No prior knowledge of philosophy is required to enjoy this book. The universe might seem very different after reading it.

作者介绍:

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标签

逻辑

英文原版

科普

物理

四维

评论

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书评

每个人都想知道这个世界的秘密，而物理学似乎又掌握着众多秘密中极为诱人的一个。不幸的是，不是每个人都能成为物理学家，而众多科普书籍看起来也似乎又不那么的科普。但事实是——物理学家也并没有掌握这个世界所有的答案，所以更合理的说法是，他们掌握着更多的问题。因此幸...

这是我读过的最有意思的一则关于世界尽头的猜想。

庞加莱曾提出过这样的一个假想宇宙（可惜豆瓣的评论都不能贴图）：这个宇宙是有边界的，但当物体离开宇宙的中心的时候，它们的体积会收缩。根据庞加莱的精心设计，这个宇宙是一个理想的球形，如果宇宙中心的任意物体体积为 v ，...

这是一本对于热爱自然科学的人来说相当有趣的一本书。它把时间与空间的关系从科学的高度提升到哲学的高度来进行阐述。解释了空间事件和时间的关系，但这种东西并不是怎么能很深入浅出的进行解释的，所以它的理论性也相当的强。要想把这本书完全读懂，完全理解，对读者自...

这本书的背面写着：欣赏本书，不需要具备科学和哲学的专业知识。

全书都围绕着一个主题，时间和空间到底是什么。

一开篇就提出一个有意思的问题：如果宇宙中的每一个物体的运动速度都加快一倍，有意义吗？这样一想我才发现是没有意义的，因为时间本身不是一个绝对的东西，我们...

第一推动一般都是物理天文生物的东西，但这本的确是哲学书。虽然没有知识方面的东西，但很启发思考，看着很累，但严谨的论证体系让人受益匪浅。简单的说，读本书最受益的一点在于他会教你从最简单的常识出发质疑，思考。强调理性的论证。这本书就不是灌输知识的，所以谈不上有...

几个常识性悖论/八卦穿插其中,让人能饶有兴趣地跳读完.有些地方太纠缠于无聊的语言折腾,把简单的问题正过来倒过去反复地说,这也许是哲学人士的特色吧.

乘着时光机去旅行——《四维旅行》有感

如今科学已经十分发达,人们了解了许许多多的奇异现象背后的秘密,但是贯穿科学史的一个基本问题——时间和空间是什么?至今还未解决,这个暑假我利用时间读了一本有关时间空间...

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