

Nothing



[Nothing_ 下载链接1_](#)

著者:Frank Close

出版者:Oxford University Press

出版时间:2009-7-26

装帧:Paperback

isbn:9780199225866

What is 'nothing'? What remains when you take all the matter away? Can empty space -

a void - exist? This Very Short Introduction explores the science and the history of the elusive void: from Aristotle who insisted that the vacuum was impossible, via the theories of Newton and Einstein, to our very latest discoveries and why they can tell us extraordinary things about the cosmos. Frank Close tells the story of how scientists have explored the elusive void, and the rich discoveries that they have made there. He takes the reader on a lively and accessible history through ancient ideas and cultural superstitions to the frontiers of current research. He describes how scientists discovered that the vacuum is filled with fields; how Newton, Mach, and Einstein grappled with the nature of space and time; and how the mysterious 'aether' that was long ago supposed to permeate the void may now be making a comeback with the latest research into the 'Higgs field'. We now know that the vacuum is far from being empty - it seethes with virtual particles and antiparticles that erupt spontaneously into being, and it also may contain hidden dimensions that we were previously unaware of. These new discoveries may provide answers to some of cosmology's most fundamental questions: what lies outside the universe, and, if there was once nothing, then how did the universe begin?

作者介绍:

目录:

[Nothing 下载链接1](#)

标签

哲学

VSI

Oxford

英文原版

科学史

牛津通识读本

政史心社经哲

已入

评论

本来把它当科幻小说了没想到原来还要调用自己多年前学过的科学知识。。。

Lucid introduction on some of the physics discoveries made in understanding "What is nothingness?"

Poorly written. Spend too much text on unrelated physical concepts instead of vacuum itself.

[Nothing_下载链接1](#)

书评

[Nothing_下载链接1](#)