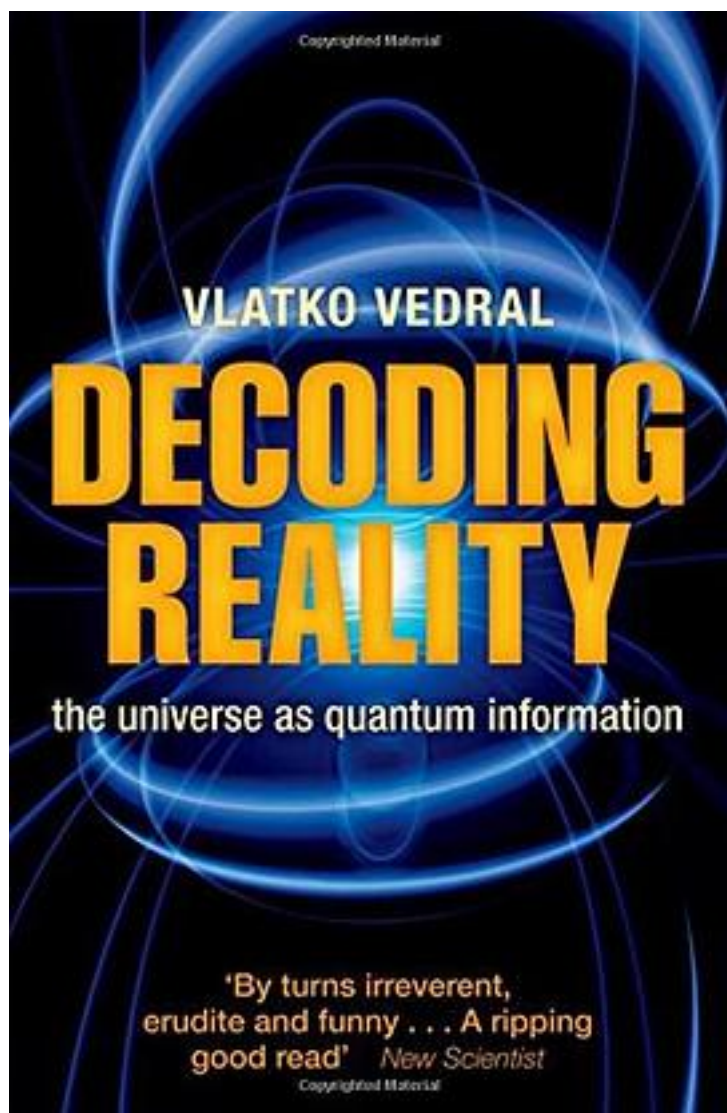


Decoding Reality



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著者:Vlatko Vedral

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For a physicist, all the world's information. The Universe and its workings are the ebb and flow of information. We are all transient patterns of information, passing on the recipe for our basic forms to future generations using a four-letter digital code called DNA. In this engaging and mind-stretching account, Vlatko Vedral considers some of the deepest questions about the Universe and considers the implications of interpreting it in terms of information. He explains the nature of information, the idea of entropy, and the roots of this thinking in thermodynamics. He describes the bizarre effects of quantum behaviour - effects such as 'entanglement', which Einstein called 'spooky action at a distance' and explores cutting edge work on the harnessing quantum effects in hyperfast quantum computers, and how recent evidence suggests that the weirdness of the quantum world, once thought limited to the tiniest scales, may reach into the macro world. Vedral finishes by considering the answer to the ultimate question: where did all of the information in the Universe come from? The answers he considers are exhilarating, drawing upon the work of distinguished physicist John Wheeler. The ideas challenge our concept of the nature of particles, of time, of determinism, and of reality itself.

作者介绍:

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标签

科普

社科-基础科学

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评论

量子信息科普。作者用简单语言和形象例子来解释复杂概念的能力真是令人叹为观止。

初读之下惊为天书，但读着读着发现也就还凑合（其实是学识和脑力跟不上作者）的一本书。身为牛津大学物理学教授的作者试图用信息论探究描述宇宙万物的唯一法则，我觉得他真是一位在“深入浅出”方面做的极好的科学家。

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书评

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