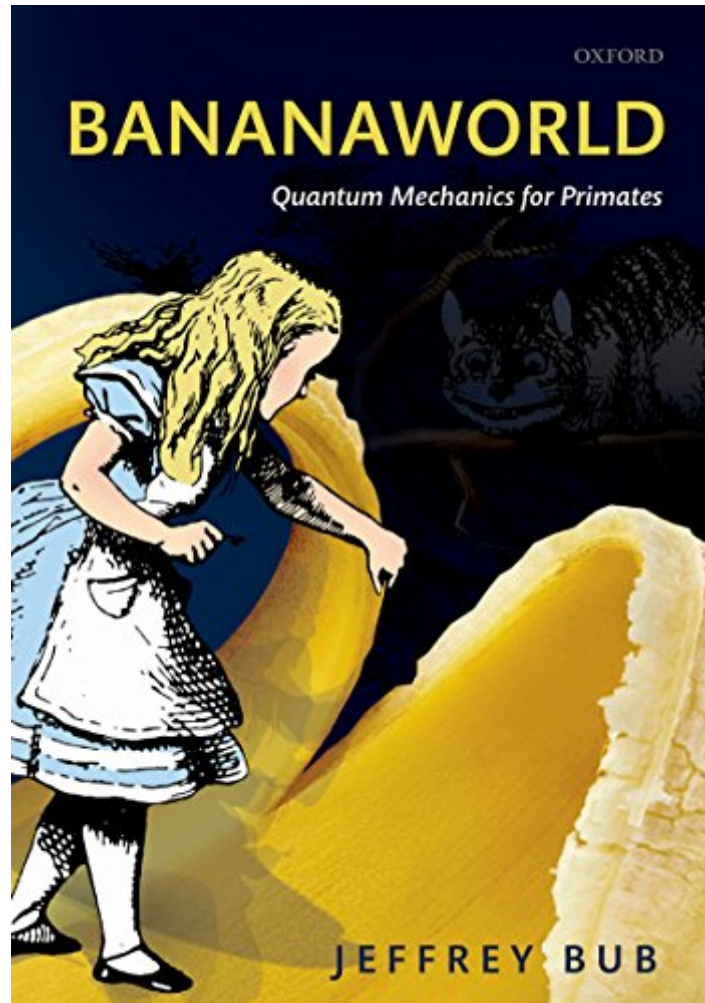


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# Bananaworld: Quantum Mechanics For Primates



## Synopsis

What on earth do bananas have to do with quantum mechanics? From a modern perspective, quantum mechanics is about strangely counterintuitive correlations between separated systems, which can be exploited in feats like quantum teleportation, unbreakable cryptographic schemes, and computers with enormously enhanced computing power. Schrödinger coined the term "entanglement" to describe these bizarre correlations. Bananaworld - an imaginary island with "entangled" bananas - brings to life the fascinating discoveries of the new field of quantum information without the mathematical machinery of quantum mechanics. The connection with quantum correlations is fully explained in sections written for the non-physicist reader with a serious interest in understanding the mysteries of the quantum world. The result is a subversive but entertaining book that is accessible and interesting to a wide range of readers, with the novel thesis that quantum mechanics is about the structure of information. What we have discovered is that the possibilities for representing, manipulating, and communicating information are very different than we thought.

## Book Information

File Size: 30329 KB

Print Length: 304 pages

Publisher: OUP Oxford (February 11, 2016)

Publication Date: February 11, 2016

Sold by: Digital Services LLC

Language: English

ASIN: B01LLTTEU0

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #336,982 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #26

in Books > Science & Math > Chemistry > Physical & Theoretical > Quantum Chemistry #43

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