

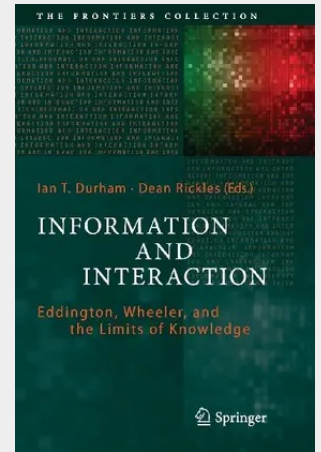
Information and Interaction

Eddington, Wheeler, and the Limits of Knowledge

In this essay collection, leading physicists, philosophers, and historians attempt to fill the empty theoretical ground in the foundations of information and address the related question of the limits to our knowledge of the world.

Over recent decades, our practical approach to information and its exploitation has radically outpaced our theoretical understanding - to such a degree that reflection on the foundations may seem futile. But it is exactly fields such as quantum information, which are shifting the boundaries of the physically possible, that make a foundational understanding of information increasingly important. One of the recurring themes of the book is the claim by Eddington and Wheeler that information involves interaction and putting agents or observers centre stage. Thus, physical reality, in their view, is shaped by the questions we choose to put to it and is built up from the information residing at its core. This is the root of Wheeler's famous phrase "it from bit." After reading the stimulating essays collected in this volume, readers will be in a good position to decide whether they agree with this view.

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74,89 €
69,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319829043
Medium: Buch
ISBN: 978-3-319-82904-3
Verlag: Birkhäuser
Erscheinungstermin: 04.07.2018
Sprache(n): Englisch
Auflage: Softcover Nachdruck of the original 1. Auflage 2017
Serie: The Frontiers Collection
Produktform: Kartoniert
Gewicht: 365 g
Seiten: 212
Format (B x H): 155 x 235 mm

