

Springer

1st
edition

2013, XIV, 314 p.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-1-4614-5211-9

£ 139,99 | CHF 189,00 | 159,99 € |
175,99 € (A) | 171,19 € (D)

Available

Discount group

Science (SC)

Product category

Contributed volume

Other renditions

Softcover

ISBN 978-1-4899-9632-9

Softcover

ISBN 978-1-4614-5213-3

Psychology : Cognitive Psychology

Suarez, Antoine, Adams, Peter (Eds.)

Is Science Compatible with Free Will?

Exploring Free Will and Consciousness in the Light of Quantum Physics and Neuroscience

- One of the first books to discuss, at the same time, the implications of quantum physics, Libet's experiments and the neurophysiological finding of mirror neurons
- Uses scientific data as a basis for drawing philosophical implications
- Contains interdisciplinary contributions from neuroscientists, quantum physicists, and free-will philosophers

Anyone who claims the right 'to choose how to live their life' excludes any purely deterministic description of their brain in terms of genes, chemicals or environmental influences. For example, when an author of a text expresses his thoughts, he assumes that, in typing the text, he governs the firing of the neurons in his brain and the movement of his fingers through the exercise of his own free will: what he writes is not completely pre-determined at the beginning of the universe. Yet in the field of neuroscience today, determinism dominates. There is a conflict between the daily life conviction that a human being has free will, and deterministic neuroscience. When faced with this conflict two alternative positions are possible: Either human freedom is an illusion, or deterministic neuroscience is not the last word on the brain and will eventually be superseded by a neuroscience that admits processes not completely determined by the past. This book investigates whether it is possible to have a science in which there is room for human freedom. The book generally concludes that the world and the brain are governed to some extent by non-material agencies, and limited consciousness does not abolish free will and responsibility. The authors present perspectives coming from different disciplines (Neuroscience, Quantumphysics and Philosophy) and range from those focusing on the scientific background, to those highlighting rather more a philosophical analysis. However, all chapters share a common characteristic: they take current scientific observations and data as a basis from which to draw philosophical implications. It is these features that make this volume unique, an exceptional interdisciplinary approach combining scientific strength and philosophical profundity.

Order online at springer.com/booksellers**Springer Nature Customer Service Center GmbH**

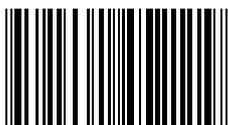
Customer Service

Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-booksellers@springernature.com

ISBN 978-1-4614-5211-9 / BIC: JMR / SPRINGER NATURE: SCY20060

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.