The New Quantum Universe
Tony Hey and Patrick Walters

A fully revised and updated edition of the bestselling *The Quantum Universe*

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The New Quantum Universe

Tony Hey, University of Southampton and Patrick Walters, University of Wa

Following the success of The Quantum Universe, first published in 1987, a host of exciting new discoveries have been made in the field of quantum mechanics.

The New Quantum Universe describes quantum mechanics and how it underpins everything we see about us – from atoms to stars, from nuclei to lasers. Quantum paradoxes and the eventful life of Schroedinger's Cat are explained, along with the Many Universe explanation of quantum measurement. The book looks ahead to the nanotechnology revolution, describing quantum cryptography, quantum computing and quantum teleportation.

Including an account of quantum mechanics and science fiction, this accessible book is a fascinating introduction for the general reader.
Reviews of the first edition

‘The Quantum Universe has a quotation from me in every chapter – but it's a damn good book anyway.’

Richard P. Feynman

‘A lively, informative read, beautifully illustrated, about the most powerful scientific theory known to mankind.’

Paul Davies

‘...a pleasure to both the mind and eye.’

Science

‘This book will amaze, baffle and delight ...’

Nature

‘If you want a ‘way in’ to the most successful and wide-ranging theory devised by human ingenuity, read The Quantum Universe.’

New Scientist

Key Features

- A popular account of the fundamentals of quantum mechanics together with an up-to-date survey of its applications
- Uses simple non-mathematical language
- Lavishly illustrated with full colour throughout
- A fully revised and updated edition of the bestselling The Quantum Universe
- New topics added e.g. Quantum Jumps, Quantum Engineering (including nanotechnology, quantum teleportation) and Quantum Mechanics in Science Fiction

About the Authors

Tony Hey is currently Professor of Computation at the University of Southampton, and Director of the UK’s national ‘e-science’ programme. He is a Fellow of the Royal Academy of Engineering, and is a Chartered Engineer.

Patrick Walters teaches adults about science, including the wider cultural and historical context, and is currently a Senior Lecturer in the Department of Adult Education at University of Wales, Swansea.

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