



Einstein s Heroes: Imagining the World through the Language of Mathematics (Paperback)

By Robyn Arianrhod

Oxford University Press, United Kingdom, 2013. Paperback. Condition: New. Language: English . Brand New Book. Imagine you are fluent in a magical language of prophecy, a language so powerful it can accurately describe things you cannot see or even imagine. Einstein s Heroes takes you on a journey of discovery about just such a miraculous language-the language of mathematics-one of humanity s most amazing accomplishments. Blending science, history, and biography, this remarkable book reveals the mysteries of mathematics, focusing on the life and work of three of Albert Einstein s heroes: Isaac Newton, Michael Faraday, and especially James Clerk Maxwell, whose work directly inspired the theory of relativity. Robyn Arianrhod bridges the gap between science and literature, portraying mathematics as a language and arguing that a physical theory is a work of imagination involving the elegant and clever use of this language. The heart of the book illuminates how Maxwell, using the language of mathematics in a new and radical way, resolved the seemingly insoluble controversy between Faraday s idea of lines of force and Newton s theory of action-at-a-distance. In so doing, Maxwell not only produced the first complete mathematical description of electromagnetism, but actually predicted the existence of...



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