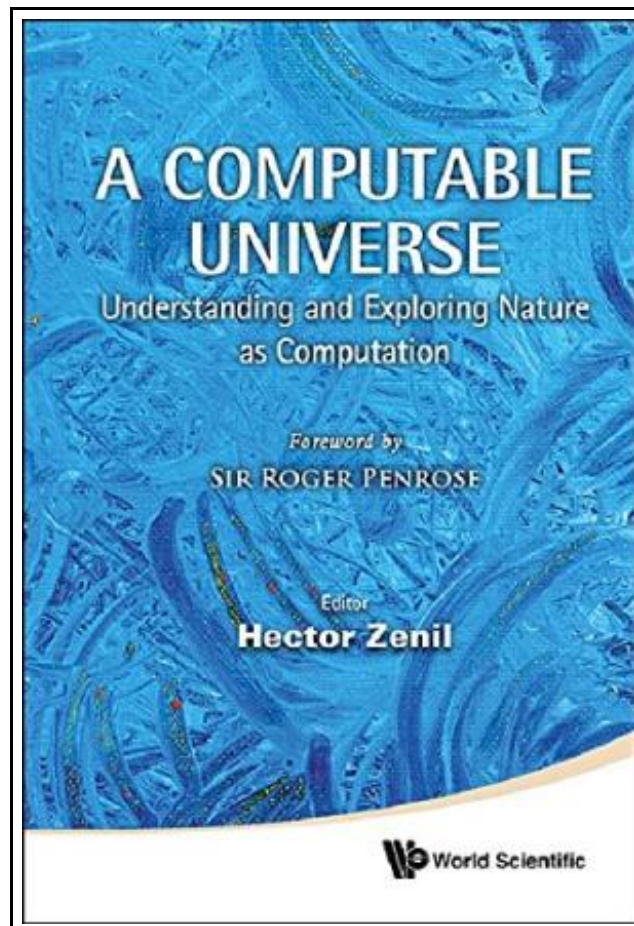# A Computable Universe: Understanding and Exploring Nature as Computation

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Reviews

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(Andy Erdman)

A COMPUTABLE UNIVERSE: UNDERSTANDING AND EXPLORING NATURE AS COMPUTATION

World Scientific Publishing Company. Hardcover. Book Condition: New. Hardcover. 856 pages. Dimensions: 9.1in. x 6.3in. x 2.0in.This volume, with a foreword by Sir Roger Penrose, discusses the foundations of computation in relation to nature. It focuses on two main questions: What is computation How does nature compute The contributors are world-renowned experts who have helped shape a cutting-edge computational understanding of the universe. They discuss computation in the world from a variety of perspectives, ranging from foundational concepts to pragmatic models to ontological conceptions and philosophical implications. The volume provides a state-of-the-art collection of technical papers and non-technical essays, representing a field that assumes information and computation to be key in understanding and explaining the basic structure underpinning physical reality. It also includes a new edition of Konrad Zuses Calculating Space (the MIT translation), and a panel discussion transcription on the topic, featuring worldwide experts in quantum mechanics, physics, cognition, computation and algorithmic complexity. The volume is dedicated to the memory of Alan M Turing -- the inventor of universal computation, on the 100th anniversary of his birth, and is part of the Turing Centenary celebrations. Readership: Graduate students who are specialized researchers in computer science, information theory, quantum theory and modern philosophy and the general public who are interested in these subject areas. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Hardcover.

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