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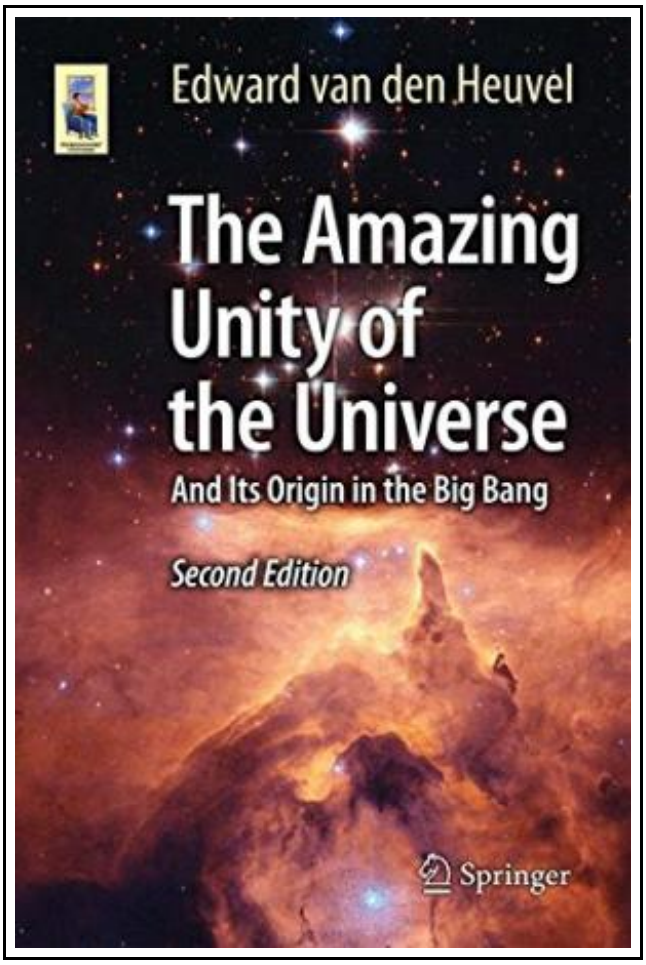

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THE AMAZING UNITY OF THE UNIVERSE: AND ITS ORIGIN IN THE BIG BANG: 2016 (2ND REVISED EDITION)

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Springer International Publishing AG. Paperback. Book Condition: new. BRAND NEW, The Amazing Unity of the Universe: And its Origin in the Big Bang: 2016 (2nd Revised edition), Edward Van den Heuvel, Professor Ed van den Heuvel begins this work by describing how our knowledge about the position of Earth in space and time has developed, thanks to the work of many generations of astronomers and physicists. He discusses how our position in the Galaxy was discovered, and how in 1929, Hubble uncovered the fact that the Universe is expanding, leading to the theory of the Big Bang. He then explains how astronomers discovered that the laws of physics (mechanics, gravity, atomic physics, electromagnetism, etc.) that were uncovered here on Earth and in the Solar System are valid throughout the Universe. This is illustrated by the fact that all matter in the Universe consists of atoms of the same chemical elements that we know on Earth. This unity is all the more surprising when one realizes that in the original Big Bang theory, different parts of the Universe could never have communicated with each other-it is then a mystery how they could have shared the same p hysical laws with each other. This problem was solved by the introduction of the idea of Inflation, which the author details for the reader. This book addresses many fundamental questions about the Universe and its contents from the perspective that the unity of the Universe finds its origin in the Big Bang, such as the formation of structure in the Universe in relation to the ripples observed in the Cosmic Microwave Background Radiation (CMBR), the question of the mysterious dark matter and dark energy, the possibilities of other universes (the Multiverse) and of the existence of intelligent life elsewhere in the Universe.

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