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| Nota di contenuto | <p>Intro -- Textual Note -- Preface -- Indiana Steinhardt -- And the Quest for Quasicrystals -- A conversation with Paul Steinhardt -- Introduction -- I. Introducing Quasicrystals -- II. Building Models -- III. Out of the Blue -- IV. Competing Explanations -- V. Looking to Nature -- VI. New Year's Delight -- VII. Confronting the Impossible -- VIII. Tracking Khatyrkite -- IX. Kamchatka -- X. Passing It On -- Continuing the Conversation -- Cryptoreality -- A conversation with Artur Ekert -- Introduction -- I. Beginnings -- II. Cryptographic Essentials -- III. Public Key Cryptosystems -- IV. Harnessing Interference -- V. Quantum Sociology -- VI. Quantum Metaphysics -- VII. The Joy of Questioning -- The Physics of Banjos -- A conversation with David Politzer -- Introduction -- I. The Feynman Experience -- II. Love at First Sound -- III. The Holy Grail -- IV. The Ocarina Effect -- V. Hearing Pitch -- VI. Relative Strengths -- VII. Transient Growth -- VIII. The Working Physicist -- IX. The Journey Continues -- The Problems of Physics, Reconsidered -- A conversation with Tony Leggett -- Introduction -- I. Back to the Future -- II. The Very Small -- III. The Very Large -- IV. A Glassy Digression -- V. The Very Complex -- VI. Understanding -- VII. Different Regimes -- VIII. Schrodinger's Cat -- IX. The Slings and Arrows of Time -- X. The Anthropic Principle -- XI. The Future of Physics -- Continuing the Conversation -- The Power of Principles -- Physics Revealed -- A conversation with Nima Arkani-Hamed --</p> |

Introduction -- I. Physics Time Management -- II. The Problem with Popularization -- III. In Feynman's Footsteps -- IV. Describing Reality -- V. A Timeless Community -- VI. Against Relativism -- VII. Strongly Constrained -- VIII. In Search of a Formula -- IX. A Principled Example -- X. Supersymmetry -- XI. Reacting Precipitously -- XII. Tangled Pillars.
XIII. The Pull of the Truth -- XIV. Choosing a Better Description -- XV. Beyond Space-Time.

Sommario/riassunto

Conversations About Physics, Volume 1, is a five-part Ideas Roadshow Collection of carefully-edited Ideas Roadshow Conversations featuring leading researchers with a detailed preface highlighting the connections between the different books. All five books include a detailed essay setting up the different ideas and questions for discussion at the end of each chapter. The following experts have participated in this Collection: 1. Nima Arkani-Hamed, faculty member at the Institute for Advanced Study in Princeton;2. Artur Ekert, Professor of Quantum Physics at the Mathematical Institute at the University of Oxford and Director of the Centre for Quantum Technologies and Lee Kong Chian Centennial Professor at the National University of Singapore;3. Tony Leggett, Physics Nobel Laureate and Professor of Physics, University of Illinois;4. David Politzer, 2004 Nobel Laureate and the Richard Chace Tolman Professor of Theoretical Physics at Caltech;5. Paul Steinhardt, the Albert Einstein Professor of Science and Director of the Center for Theoretical Science at Princeton University. Howard Burton is the creator and host of Ideas Roadshow and was the Founding Executive Director of Perimeter Institute for Theoretical Physics. He holds a PhD in theoretical physics and an MA in philosophy.
