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Titolo	Four revolutions in the earth sciences : from heresy to truth / / James Lawrence Powell
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Descrizione fisica	1 online resource (385 p.)
Disciplina	550
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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Contents -- List of Illustrations -- Preface -- Introduction -- PART I. DEEP TIME -- The Abyss of Time -- A Great Mistake Has Been Made -- The Bank of Time -- Account Overdrawn -- Strange Rays -- An Hourglass of Great Precision -- Geochronology -- Duck Soup -- PART II. CONTINENTAL DRIFT AND PLATE TECTONICS -- An Idea to Pursue -- A Very Trusting Man -- Dead on Arrival -- Geologists Unite Against Heresy -- Continental Drift: Not Even Wrong -- Postwar Surprises -- Wandering Poles or Drifting Continents? -- The Final Confrontation -- Spreading Seafloors -- HypotHESSes -- The Discovery of the Century -- All This Rubbish -- PART III. METEORITE IMPACT -- A Trivial Process -- To Hunt a Star -- The Moon's Face -- Rosetta Stone -- To a Rocky Moon -- Worlds in Collision -- Dinosaur Killer -- Out with a Bang -- Cosmic Pinball -- PART IV. GLOBAL WARMING -- Origins of the CO ₂ Theory -- Tedious Calculations of Extraordinary Interest -- Destructive Criticism -- A Unique Experiment of Planetary Dimensions -- Giant Brains -- Warming Is Unequivocal -- From Heresy to Truth -- Acknowledgments -- Notes -- Recommended Reading -- Bibliography -- Index

Sommario/riassunto

Over the course of the twentieth century, scientists came to accept four counterintuitive yet fundamental facts about the Earth: deep time, continental drift, meteorite impact, and global warming. When first suggested, each proposition violated scientific orthodoxy and was quickly denounced as scientific-and sometimes religious-heresy. Nevertheless, after decades of rejection, scientists came to accept each theory. The stories behind these four discoveries reflect more than the fascinating push and pull of scientific work. They reveal the provocative nature of science and how it raises profound and sometimes uncomfortable truths as it advances. For example, counter to common sense, the Earth and the solar system are older than all of human existence; the interactions among the moving plates and the continents they carry account for nearly all of the Earth's surface features; and nearly every important feature of our solar system results from the chance collision of objects in space. Most surprising of all, we humans have altered the climate of an entire planet and now threaten the future of civilization. This absorbing scientific history is the only book to describe the evolution of these four ideas from heresy to truth, showing how science works in practice and how it inevitably corrects the mistakes of its practitioners. Scientists can be wrong, but they do not stay wrong. In the process, astonishing ideas are born, tested, and over time take root.

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