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Titolo	Infinity : new research frontiers // edited by Michael Heller, W. Hugh Woodin [[electronic resource]]
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Descrizione fisica	1 online resource (xiii, 311 pages) : digital, PDF file(s)
Classificazione	MAT018000
Disciplina	111/.6
Soggetti	Infinite - History Mathematics - Philosophy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Infinity as a transformative concept in science and theology / Wolfgang Achtner -- The mathematical infinity / Enrico Bombieri -- Warning signs of a possible collapse of contemporary mathematics / Edward Nelson -- The realm of the infinite / W. Hugh Woodin -- A potential subtlety concerning the distinction between determinism and nondeterminism / W. Hugh Woodin -- Concept calculus : much better than / Harvey M. Friedman -- Some considerations on infinity in physics / Carlo Rovelli -- Cosmological intimations of infinity / Anthony Aguirre -- Infinity and the nostalgia of the stars / Marco Bersanelli -- Infinities in cosmology / Michael Heller -- God and infinity : directions for future research / Graham Oppy -- Notes on the concept of the infinite in the history of Western metaphysics / David Bentley Hart -- God and infinity : theological insights from Cantor's mathematics / Robert J. Russell -- A (partially) skeptical response to Hart and Russell / Denys A. Turner.
Sommario/riassunto	This interdisciplinary study of infinity explores the concept through the prism of mathematics and then offers more expansive investigations in areas beyond mathematical boundaries to reflect the broader, deeper

implications of infinity for human intellectual thought. More than a dozen world-renowned researchers in the fields of mathematics, physics, cosmology, philosophy and theology offer a rich intellectual exchange among various current viewpoints, rather than displaying a static picture of accepted views on infinity. The book starts with a historical examination of the transformation of infinity from a philosophical and theological study to one dominated by mathematics. It then offers technical discussions on the understanding of mathematical infinity. Following this, the book considers the perspectives of physics and cosmology: can infinity be found in the real universe? Finally, the book returns to questions of philosophical and theological aspects of infinity.
