



# Archimedes to Hawking: Laws of Science and the Great Minds Behind Them

By Clifford Pickover

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## Archimedes to Hawking: Laws of Science and the Great Minds Behind Them By Clifford Pickover

*Archimedes to Hawking* takes the reader on a journey across the centuries as it explores the eponymous physical laws--from Archimedes' Law of Buoyancy and Kepler's Laws of Planetary Motion to Heisenberg's Uncertainty Principle and Hubble's Law of Cosmic Expansion--whose ramifications have profoundly altered our everyday lives and our understanding of the universe.

Throughout this fascinating book, Clifford Pickover invites us to share in the amazing adventures of brilliant, quirky, and passionate people after whom these laws are named. These lawgivers turn out to be a fascinating, diverse, and sometimes eccentric group of people. Many were extremely versatile polymaths--human dynamos with a seemingly infinite supply of curiosity and energy and who worked in many different areas in science. Others had non-conventional educations and displayed their unusual talents from an early age. Some experienced resistance to their ideas, causing significant personal anguish.

Pickover examines more than 40 great laws, providing brief and cogent introductions to the science behind the laws as well as engaging biographies of such scientists as Newton, Faraday, Ohm, Curie, and Planck. Throughout, he includes fascinating, little-known tidbits relating to the law or lawgiver, and he provides cross-references to other laws or equations mentioned in the book. For several entries, he includes simple numerical examples and solved problems so that readers can have a hands-on understanding of the application of the law. A sweeping survey of scientific discovery as well as an intriguing portrait gallery of some of the greatest minds in history, this superb volume will engage everyone interested in science and the physical world or in the dazzling creativity of these brilliant thinkers.

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**Bibliography**

- Sales Rank: #435134 in Books
- Published on: 2008-04-16
- Original language: English
- Number of items: 1
- Dimensions: 6.20" h x 1.50" w x 9.30" l, 1.91 pounds
- Binding: Hardcover
- 528 pages

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"A ride through the history of world-changing scientific ideas. Pickover pays homage to the great minds who have laid bare the mathematical machinery whirring just beneath the skin of reality. An impressively researched tour de force." --Marcus Chown, author of *The Quantum Zoo*

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## About the Author

**Clifford A. Pickover** is the author of forty books on such topics as computers and creativity, art, mathematics, black holes, human behavior and intelligence, time travel, alien life, religion, medical mysteries, and science fiction. Pickover is a prolific inventor with over forty patents, is the associate editor for several journals, and puzzle contributor to magazines geared to children and adults. He lives outside New York City.

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