



# Cycles of Time: An Extraordinary New View of the Universe

*Roger Penrose*

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## Cycles of Time: An Extraordinary New View of the Universe Roger Penrose

This groundbreaking book presents a new perspective on three of cosmology's essential questions: What came before the Big Bang? What is the source of order in our universe? And what cosmic future awaits us?

Penrose shows how the expected fate of our ever-accelerating and expanding universe—heat death or ultimate entropy—can actually be reinterpreted as the conditions that will begin a new “Big Bang.” He details the basic principles beneath our universe, explaining various standard and non-standard cosmological models, the fundamental role of the cosmic microwave background, the paramount significance of black holes, and other basic building blocks of contemporary physics. Intellectually thrilling and widely accessible, *Cycles of Time* is a welcome new contribution to our understanding of the universe from one of our greatest mathematicians and thinkers.



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