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Explores the laws of gravity on earth and in space as viewed by scientists from Aristotle to Einstein.

A history of gravity, and a study of its importance and relevance to our lives, as well as its influence on other areas of science. Physicists will tell you that four forces control the universe. Of these, gravity may the most obvious, but it is also the most mysterious. Newton managed to predict the force of gravity but couldn't explain how it worked at a distance. Einstein picked up on the simple premise that gravity and acceleration are interchangeable to devise his mind-bending general relativity, showing how matter warps space and time. Not only did this explain how gravity worked – and how apparently simple gravitation has four separate components – but it predicted everything from black holes to gravity's effect on time. Whether it's the reality of anti-gravity or the unexpected discovery that a ball and a laser beam drop at the same rate, gravity is the force that fascinates.

Advances made by physicists in understanding matter, space, and time and by astronomers in understanding the universe as a whole have closely intertwined the question being asked about the universe at its two extremesâ €"the very large and the very small. This report identifies 11 key questions that have a good chance to be answered in the next decade. It urges that a new research strategy be created that brings to bear the techniques of both astronomy and sub-atomic physics in a cross-disciplinary way to address these questions. The report presents seven recommendations to facilitate the necessary research and development coordination. These recommendations identify key priorities for future scientific projects critical for realizing these scientific opportunities.

In his conversational style, Anthony Zee examines the nature of gravity and its role in our universe. Zee starts from a birthday gift that Albert Einstein received on his seventy-sixth birthday that worked on the main principle in his theory of gravity. From there Zee leads the reader through the implications of Einstein's theory and its influence on modern physics. Einstein's Universe in a witty and accessible style also examines how the theory of gravity has shaped our understanding of how the universe began, the development of stars and galaxies, and the nature of space itself. The new Oxford edition will include a new afterword by the author that will bring the subject matter up to date.

As accessible as it is fascinating, The Large Hadron Collider reveals the inner workings of this masterful achievement of technology, along with the mind-blowing discoveries that will keep it at the center of the scientific frontier for the foreseeable future.

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DivThe genesis of the universe elegantly explained in a simple theory based on just six numbers by one of the world's most renowned astrophysicists/div

String theory says we live in a ten-dimensional universe, but that only four are accessible to our everyday senses. According to theorists, the missing six are curled up in bizarre structures known as Calabi-Yau manifolds. In The Shape of Inner Space, Shing-Tung Yau, the man who mathematically proved that these manifolds exist, argues that not only is geometry fundamental to string theory, it is also fundamental to the very nature of our universe. Time and again, where Yau has gone, physics has followed. Now for the first time, readers will follow Yau ' s penetrating thinking on where we ' ve been, and where mathematics will take us next. A fascinating exploration of a world we are only just beginning to grasp, The Shape of Inner Space will change the way we consider the universe on both its grandest and smallest scales.

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