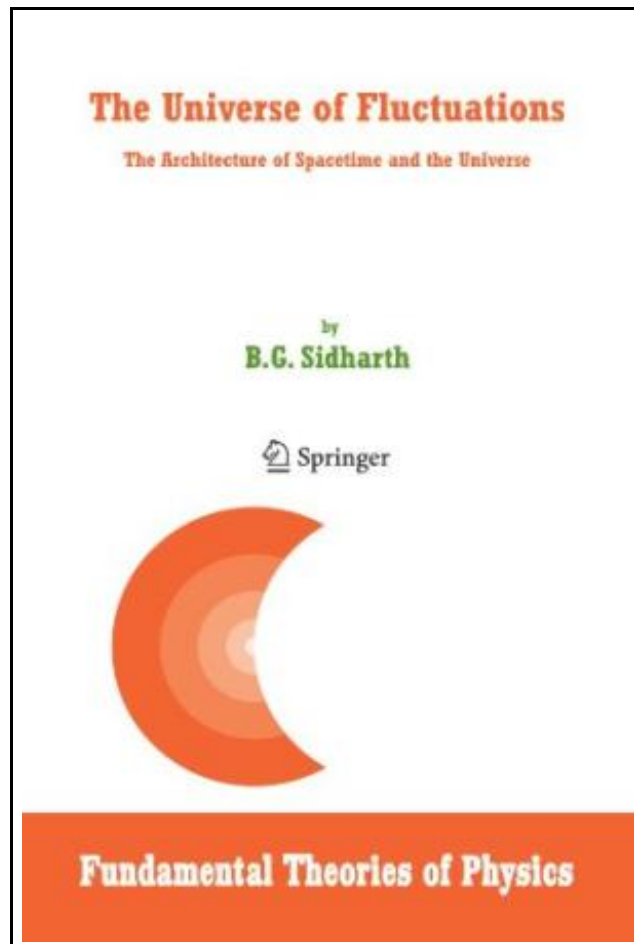


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Springer, Netherlands, 2010. Paperback. Book Condition: New. 1st ed. Softcover of orig. ed. 2005. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.In 1997, contrary to the ruling paradigm which was that of a dark matter filled, decelerating universe, my work pointed to a dark energy driven-accelerating universe with a small cosmological constant. Moreover, the many supposedly accidental Large Number relations in cosmology, including the mysterious Weinberg formula were now deduced from the theory. Observational confirmation for this scenario came in 1998, while dark energy itself was finally confirmed in 2003, thanks to the Wilkinson Microwave Anisotropy Probe and the Sloan Digital Sky Survey. The 1997, and subsequent work was the consequence of mainly three considerations: dark energy or the well known Zero Point Field, fuzzy spacetime and fluctuations. Indeed String Theory and Quantum Gravity approaches have had to discard the smooth spacetime of General Relativity and Quantum Field Theory, in a quest for a unified description of these two pillars of twentieth century physics. This book is the result of some seventy-five papers published in international journals, and partly an earlier book, *The Chaotic Universe: From the Planck to the Hubble Scale* (Nova Science, New York, 2001), as also several lectures delivered in Universities and institutes in the United States, Canada and Europe. It describes how, in a simple and somewhat conventional framework, an underpinning of Planck scale oscillators in the ubiquitous Zero Point Field or dark energy leads to a unified description of phenomena involving elementary particles and the cosmos. In particular, apart from the cosmology mentioned above, these considerations lead to a unified description of all interactions, including gravitation, though in an extended gauge field treatment.

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