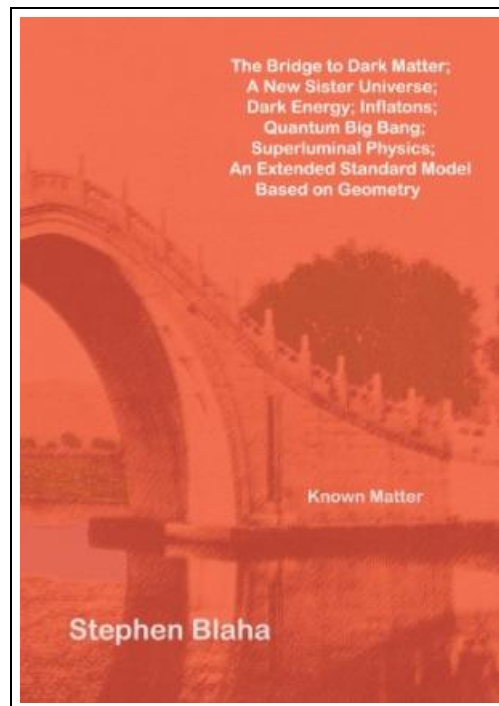


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THE BRIDGE TO DARK MATTER A NEW SISTER UNIVERSE DARK ENERGY INFLATONS QUANTUM BIG BANG SUPERLUMINAL PHYSICS AN EXTENDED STANDARD MODEL BASED ON



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Blaha Research. Paperback. Condition: New. 220 pages. Dimensions: 10.0in. x 6.9in. x 0.6in. The current major problems in particle physics and astrophysics are the source of possible new features: of The Standard Model, of the nature of Dark Matter, of the nature of Dark Energy, and of the nature of the Big Bang. In this book we propose an extended version of The Standard Model based on earlier work that adds another $SU(2) \times U(1)$ symmetry to the usual Standard Model, and an accompanying set of particles that we propose are the constituents of Dark Matter. This additional symmetry follows directly from a geometrical foundation for space-time within a 16 dimensional flat space that we call the Flatverse. Upon introducing a form of quantum coordinates we find that The Standard Model in those coordinates has no infinities, that the Big Bang is finite (no singularity), and that the Dark Energy that fuels the expansion of the universe has inflatons that consist of the imaginary part of the quantum coordinates - a free abelian gauge field. This field first stabilizes the universe in the Big Bang period and then causes a massive inflationary expansion. The complete theory has a remarkable convergence of features that remove infinities, identify the nature of Dark Matter and of Dark Energy, specify a physically acceptable Big Bang, and predict the observed expansion of the universe. In addition we address the recently reported discovery of the Higgs particle that explains the origin of the masses of the other elementary particles but does not explain the origin of the Higgs particle mass terms and thus leaves open the ultimate question - What is the origin of mass and inertia We show that the only final answer can be that it arises as a separation constant in Higgs dynamic equations that...



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