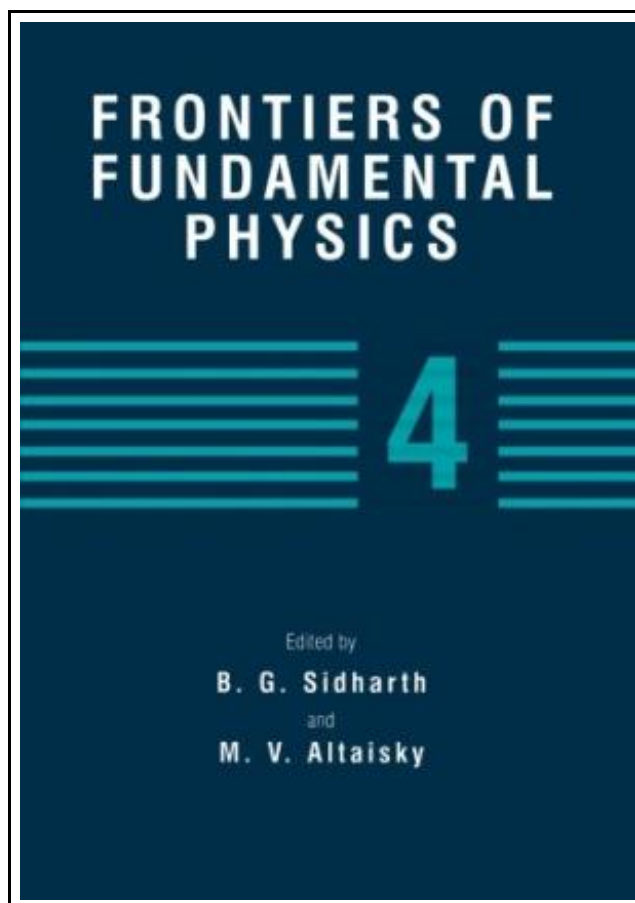


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Book Condition: New. Publisher/Verlag: Springer, Berlin | This symposium was organized at the B.M. Birla Science Centre, Hyderabad, India, and provided a platform for frontier physicists to exchange ideas and review the latest work and developments on a variety of interrelated topics. A feature of the symposium, as well as the proceedings, is the B.M. Birla Memorial Lecture by Nobel Laureate Professor Gerard 't Hooft. There were participants from the USA, several European countries, Russia and CIS countries, South Africa, Japan, India and elsewhere, of whom some forty scientists presented papers. Spanning a wide range of contemporary issues in fundamental physics from string theory to cosmology, the proceedings present many of these talks and contributions. | 1. A Confrontation with infinity; G. 't Hooft. 2. The self-intersecting brane world; M. Pavsic. 3. A model of the spacetime foam; V. Dzhunushaliev. 4. Anti-grand unification and the phase transitions at the Planck scale in gauge theories; L.V. Laperashvili. 5. The structure of the Yang-Mills Vacuum seen by distant observers; G. Etesi. 6. Scale relativity and non-differentiable fractal space-time; L. Nottale. 7. 't Hooft dimensional regularization implies transfinite Heterotic string theory and dimensional transmutation; M.S. El Naschie. 8. The cantorion gravity coupling constant is $\alpha_{\text{g}}(\text{max}) = 1/26.18033989$; M.S. El Naschie. 9. Fuzzy, non commutative spacetime: A new paradigm for a new century; B.G. Sidharth. 10. Quarks as vortices in vacuum; G. Musulmanbekov. 11. 4 - Field theory on a lie group; M.V. Altaisky. 12. From quantum action to quantum chaos; H. Jirari, et al. 13. Resolution of the Einstein-Podolsky-Rosen nonlocality puzzle; C.S. Unnikrishnan. 14. Classical and quantum solutions of 2+1 dimensional gravity; M. Kenmoku, et al. 15. Gravitational collapse; A. Beesham, S.G. Ghosh. 16. Gravitational wave and spiral galaxy (Gravito-Radiative Force); M. Mizushima. 17. Cosmology as a format of perceiving reality; M....



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