

Lasers, Clocks And Drag-free Key Technologies

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Over the next decade the gravitational physics community will benefit from dramatic improvements in many technologies critical to testing gravity. Highly accurate deep space navigation, interplanetary laser communication, interferometry and metrology, high precision frequency standards, precise pointing and attitude control, together with drag-free technologies, will revolutionize the field of experimental gravitational physics. The centennial of the general theory of relativity in 2015 will motivate a significant number of experiments designed to test this theory with unprecedented accuracy. Written by international experts, this book explores the possibilities for the next 20 years in conducting gravitational experiments in space that would make the most of the new and much-improved existing capabilities. They start from the premise that over the next decade the gravitational physics community will benefit from dramatic improvements in many technologies critical to the tests of gravity. This volume contains a comprehensive presentation of the theory, technology, missions and projects on relativistic gravity in space. EAN/ISBN : 9783540343776 Publisher(s): Springer, Berlin, Springer Netherlands Format: ePub/PDF Author(s): Dittus, Hansjrg - Lmmerzahl, Claus - Turyshev, Slava G.

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