



## Gyros, Clocks, Interferometers.: Testing Relativistic Gravity in Space

By Lämmerzahl, C. / Everitt, C. W. F.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Many new tests of gravity and, in particular, of Einstein's general relativity theory will be carried out in the near future: The Lense-Thirring effect and the equivalence principle will be tested in space; moreover, gravitational waves will be detected, and new atomic interferometers and clocks will be built for measurements in gravitational and inertial fields. New high-precision devices have made these experiments feasible. They will contribute to a better understanding of gravitational physics. Both experimental developments and the theoretical concepts are collected in this volume. Exhaustive reviews give an overall insight into the subject of experimental gravitation. | Overview.- An Overview of Solar System Gravitational Physics: The Theory-Experiment Interface.- Determination of the Gravitational Constant.- The Lense-Thirring Effect.- The Lense-Thirring Effect: From the Basic Notions to the Observed Effects.- Gravity Probe B: Countdown to Launch.- Gravitomagnetism and the Clock Effect.- Spinning Relativistic Particles in External Fields.- Detection of Gravitational Waves.- The GEO 600 Gravitational Wave Detector Status, Research, Development.- Gravitational Radiation Theory and Light Propagation.- Relic Gravitational Waves and Their Detection.- The Equivalence Principle.- Principles of Equivalence: Their Role in Gravitation Physics and Experiments That Test Them.- STEP: A Status Report.- High Sensitive DC...



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