

RELATIVITY IN CELESTIAL MECHANICS AND ASTROMETRY

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This book presents the proceedings of the first international conference to ever simultaneously involve theoreticians in general relativity on the one hand, and astronomers, space scientists and geodesists who use the theory on the other.

The accuracy of present determinations of the position of celestial bodies has considerably improved, and great progress has been made in the theory of their motion. Parallel to this, the interpretation of astrometric and space measurements, within the framework of general relativity, has greatly improved.

This volume deals with the latest results in all these fields and includes contributions on the following topics: dynamical effects in general relativity; accurate modern theories of motion in the solar system; time; relativistic reduction of astronomical observations; relativistic effects in geodesy and the Earth environment. In addition, future high-precision observation techniques are presented, together with papers on relativity beyond the current accuracy limitations.

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