



Gravitational Waves: Volume 1: Theory and Experiments

By Michele Maggiore

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The aim of this book is to become THE reference text for gravitational-wave physics, covering in detail both the experimental and the theoretical aspects. It is the only existing book on gravitational waves, and it will likely remain unique for its broadness and scope. It brings the reader to the forefront of present-day research, both theoretical and experimental, assuming no previous knowledge of gravitational-wave physics.

Part I of this volume is devoted to the theory of gravitational waves. Here we have rederived - in a coherent way - most of the results that we present, clarifying or streamlining existing derivations.

Part II is devoted to a description of experimental GW physics. We discuss in great detail existing and planned experiments, as well as data analysis techniques.

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Editorial Review

Review

'There is no doubt that gravitational waves are about to be detected. Gravity has been steadily moving into the centre of physics for over a decade, and excitement generated by gravitational-wave signals would lead to a substantial demand for a graduate-level text such as this. I very much like the emphasis on rederiving classical results afresh and in a coherent context. The scheme of covering more technical topics through solved problems, also employed by in the classical Landau-Lifshitz series, is an excellent one. Part II of volume 1, on experiments, should provide an outstanding training in the principles of experimental physics and as such provide a wonderful graduate course.'

James Binney, University of Oxford

'The book will fill a space which currently exists and will be of significant use to both students and researchers in the field as well as those in other areas who want to know a little about the subject.'

James Hough, University of Glasgow

About the Author

Prof. Michele Maggiore

Department of Theoretical Physics, University of Geneva Born in 1963, Michele Maggiore has graduated from University of Pisa in 1986, and has got his PhD from Scuola Normale Superiore in Pisa, in 1989. After postdoctoral positions in Bern and at University of Minnesota he became researcher at INFN in Pisa in 1991. Since 2001 he is Professeur Ordinaire (Professor) at the Dept. of Theoretical Physics, University of Geneva. His research interests cover a broad range of subjects, including quantum field theory, quantum gravity, cosmology, string theory, and the study of gravitational waves of astrophysical or cosmological origin. He is also involved in experimental efforts for gravitational wave detection.

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