



Gravity from the Ground Up: An Introductory Guide to Gravity and General Relativity

By *Bernard Schutz*



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This book provides an accessible introduction to astronomy and general relativity, aiming to explain the Universe, not just to describe it. Written by an expert in relativity who is known for his clearly-written advanced textbooks, the treatment uses only high-school level mathematics, supplemented by optional computer programs, to explain the laws of physics governing gravity from Galileo and Newton to Einstein.

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Review

"...the text is...inviting, with exercises that have real-world application, such as exploring the energy of photons that cause sunburn." Stuart J. Goldman, *Sky & Telescope*

"Delightfully thorough yet easy to read." *American Scientist*

About the Author

Bernard Schutz has done research and teaching in general relativity and especially its applications in astronomy since 1970. He is the author of more than 200 publications, including *Geometrical Methods of Mathematical Physics* and *A First Course in General Relativity* (both published by Cambridge University Press). Schutz currently specialises in gravitational wave research, studying the theory of potential sources and designing new methods for analysing the data from current and planned detectors. He is a member of most of the current large-scale gravitational wave projects: GEO600 (of which he is a PI), the LIGO Scientific Collaboration, and LISA. Schutz is a Director of the Max Planck Institute for Gravitational Physics, also known as the Albert Einstein Institute (AEI), in Potsdam, Germany. He holds a part-time chair in Physics and Astronomy at Cardiff University, Wales, as well as honorary professorships at Potsdam and Hanover universities in Germany. Educated in the USA, he taught physics and astronomy for twenty years at Cardiff before moving to Germany in 1995 to the newly-founded AEI. In 1998 he founded the open-access online journal *Living Reviews in Relativity*. The Living Reviews family now includes six journals. In 2006 he was awarded the Amaldi Gold Medal of the Italian Society for Gravitation (SIGRAV), and in 2011 he received an honorary DSc from the University of Glasgow. He is a Fellow of the American Physical Society and the Institute of Physics, an Honorary Fellow of the Royal Astronomical Society, and a member of the Learned Society of Wales, the German Academy of Natural Sciences Leopoldina and the Royal Society of Arts and Sciences, Uppsala.

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