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Lizhi Fang, Remo Ruffini



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and effectiveness of the WE Heraeus Foundation We would like to express our thanks to Jutta Adam and Dr Volker Schafer for the almost incredibly simple and unbureaucratical procedure of funding organization and realization and of course to the founders Similar to the 152 WE Heraeus Seminar Relativity and Scientific Computing Springer Verlag 1996 this seminar was a joint venture of the Astronomical Society AG and of the Section Gravitation und Relativity Theory of the German Physical Society DPG Since Einstein has developed his Theory of General Relativity more than 80 years ago the situation has changed dramatically In the first decades main efforts were undertaken for a better understanding and for the experimental verification of the theory Mean while General Relativity GR is one of the experimentally best confirmed theories with 13 an accuracy better than 10 Consequently GR has become a powerful tool for the investigation of cosmic processes where strong gravitational fields are involved The state of the art of our knowledge is summarized by Jiirgen Ehlers in the first chapter An impressive example of the change of the situation is the gravitational light deflection

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basis of the Springer Lecture Notes in Physics Volume 150 published in 1981 This text appeared in German because there have been few modern expositions of the general theory of relativity in the mother tongue of its only begetter Soon after the book appeared W Thirring asked me to prepare an English edition for the Texts and Monographs in Physics Fortunately E Borie agreed to translate the original German text into English An excellent collaboration allowed me to revise and add to the contents of the book I have updated and improved the original text and have added a number of new sections mostly on astrophysical topics In particular in collaboration with M Camenzind I have included a chapter on spherical and disk accretion onto compact objects This book divides into three parts Part I develops the mathematical tools used in the general theory of relativity Since I wanted to keep this part short but reasonably self contained I have adopted the dry style of most modern mathematical texts Readers who have never before been confronted with differential geometry will find the exposition too abstract and will miss motivations of the basic concepts and constructions

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Current Trends in Relativistic Astrophysics Leonardo Fernández-Jambrina, Luis Manuel González-Romero, 2008-01-11 The present volume contains the expanded lectures of a meeting on relativistic astrophysics the goal of which was to provide a modern introduction to specific aspects of the field for young researchers as well as for nonspecialists from related areas Particular emphasis is placed on the theory of black holes and evolution relativistic stars and jet hydrodynamics as well as the production and detection of gravitational waves The book is complemented by further contributions and animation supplied on the accompanying CD ROM **Texas Symposium on Relativistic Astrophysics** Texas Symposium on

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Gottlober, Jan P Mucke, Volker Muller, 1992-08-31 This book deals mainly with gravitational physics and its application to the
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