



Oscillations and Waves: In Strong Gravitational and Electromagnetic Fields (Theoretical and Mathematical Physics)

Nail R. Sibgatullin

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This book is an updated and modified translation of the Russian edition of 1984. In the present edition, certain sections have been abridged (in particular, Sects. 6.1 and 8.3) and the bibliography has been expanded. There are more detailed discussions of the group properties of integrable systems of equations of mathematical physics (Sect. 3.4) and of the Riemannian problem in the context of the infinite dimensional internal symmetry groups of these systems of equations. There is an extended discussion of the reasons for the acceleration and retardation of pulsars in connection with more recent achievements of X-ray astronomy. Part of the material of Chap. 8 of the Russian edition has been included in Chap. 7; thus the number of chapters has been reduced to seven. S. Chandrasekhar set for me an example of brilliant analytical penetration into the essence of physical problems, and my book touches on his work in many instances. The results of modern quantum theories of strong fields are not presented, but they can be found in the fundamental monographs *Quantum Electrodynamics of Strong Fields* by W. Greiner, B. Muller, J. Rafelski (Springer-Verlag, Berlin, Heidelberg, New York 1985) and *Quantum Effects in Intense External Fields* [in Russian] by A. Grib, S. Mamaev, W. Mostepanenko (Energoatomizdat, Moscow 1988). This book was translated by Dr. N. M. Queen; I am very grateful to him. I thank sincerely H. Latta, C.-D. Bachem, V. Rehman, S. von Kalckreuth for preparing of the English manuscript.

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