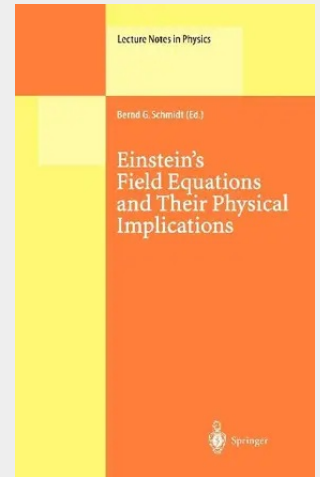


Einstein's Field Equations and Their Physical Implications

Selected Essays in Honour of Jürgen Ehlers

This book serves two purposes. The authors present important aspects of modern research on the mathematical structure of Einstein's field equations and they show how to extract their physical content from them by mathematically exact methods. The essays are devoted to exact solutions and to the Cauchy problem of the field equations as well as to post-Newtonian approximations that have direct physical implications. Further topics concern quantum gravity and optics in gravitational fields. The book addresses researchers in relativity and differential geometry but can also be used as additional reading material for graduate students.

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106,99 €

99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540670735

Medium: Buch

ISBN: 978-3-540-67073-5

Verlag: Springer

Erscheinungstermin: 18.02.2000

Sprache(n): Englisch

Auflage: 1. Auflage 2000

Serie: Lecture Notes in Physics

Produktform: Gebunden

Gewicht: 1780 g

Seiten: 433

Format (B x H): 160 x 241 mm

