

Springer

2.  
Auflage2nd ed. 2020, XXIV, 520 p.  
117 illus., 16 illus. in color.**Gedrucktes Buch**

Softcover

**Gedrucktes Buch**

Softcover

ISBN 978-3-030-43861-6

£ 54,99 | CHF 71,00 | 59,99 € |

65,99 € (A) | 64,19 € (D)

lieferbar

**Rabattgruppe**

Standard (0)

**Produktkategorie**

weiterführendes Lehrbuch

**Reihe**

Undergraduate Texts in Physics

Physik : Klassische und Quantengravitation, Relativitätstheorie

Grøn, Øyvind

# Introduction to Einstein's Theory of Relativity

From Newton's Attractive Gravity to the Repulsive Gravity of Vacuum Energy

- A compact yet complete introduction to general relativity, revised to bring the content up-to-date
- Based on an established lecture course; the ideal student book
- An understandable text that is also suited for self study
- Includes full solutions to the end-of-chapter exercises

The revised and updated 2nd edition of this established textbook provides a self-contained introduction to the general theory of relativity, describing not only the physical principles and applications of the theory, but also the mathematics needed, in particular the calculus of differential forms. Updated throughout, the book contains more detailed explanations and extended discussions of several conceptual points, and strengthened mathematical deductions where required. It includes examples of work conducted in the ten years since the first edition of the book was published, for example the pedagogically helpful concept of a "river of space" and a more detailed discussion of how far the principle of relativity is contained in the general theory of relativity. Also presented is a discussion of the concept of the 'gravitational field' in Einstein's theory, and some new material concerning the 'twin paradox' in the theory of relativity. Finally, the book contains a new section about gravitational waves, exploring the dramatic progress in this field following the LIGO observations. Based on a long-established masters course, the book serves advanced undergraduate and graduate level students, and also provides a useful reference for researchers.

**Bestellen Sie online unter [springer.com/booksellers](https://www.springer.com/booksellers)****Springer Nature Customer Service Center GmbH**

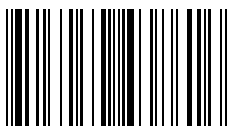
Customer Service

Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

[row-booksellers@springernature.com](mailto:row-booksellers@springernature.com)

ISBN 978-3-030-43861-6 / BIC: PHR / SPRINGER NATURE: SCP19070

€ (D) sind gebundene Ladenpreise in Deutschland und enthalten 7 % für Printprodukte bzw. 19 % MwSt. für elektronische Produkte. € (A) sind gebundene Ladenpreise in Österreich und enthalten 10 % für Printprodukte bzw. 20% MwSt. für elektronische Produkte. Die mit \* gekennzeichneten Preise sind unverbindliche Preisempfehlungen und enthalten die landesübliche MwSt. Preisänderungen und Irrtümer vorbehalten.

Part of **SPRINGER NATURE**