

Minkowski Space

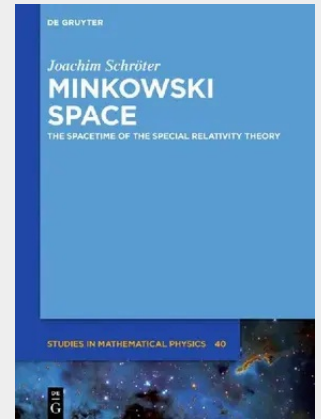
The Spacetime of Special Relativity

In Minkowski-Space the space-time of special relativity is discussed on the basis of fundamental results of space-time theory. This idea has the consequence that the Minkowski-space can be characterized by 5 axioms, which determine its geometrical and kinematical structure completely. In this sense Minkowski-Space is a prolegomenon for the formulation of other branches of special relativity, like mechanics, electrodynamics, thermodynamics etc. But these applications are not subjects of this book.

Contents

Basic properties of special relativity
 Further properties of Lorentz matrices
 Further properties of Lorentz transformations
 Decomposition of Lorentz matrices and Lorentz transformations
 Further structures on M
 Tangent vectors in M
 Orientation
 Kinematics on M
 Some basic notions of relativistic theories

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139,95 €

130,79 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783110484571
Medium: Buch
ISBN: 978-3-11-048457-1
Verlag: De Gruyter
Erscheinungstermin: 12.06.2017
Sprache(n): Englisch
Auflage: 1. Auflage 2017
Serie: ISSN
Produktform: Gebunden
Gewicht: 412 g
Seiten: 123
Format (B x H): 175 x 246 mm

