

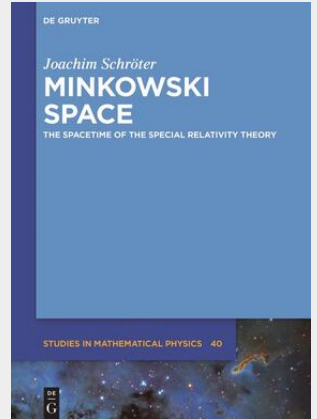
Schröter

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_s Tangent vectors in M_s Orientation Kinematics on M_s Some basic notions of relativistic theories

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119,95 €

112,10 € (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: De Gruyter Studies in
Mathematical Physics

Produktform: Gebunden

Gewicht: 412 g

Seiten: 123

Format (B x H): 175 x 246 mm

