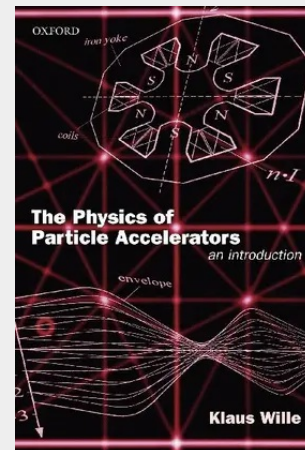


The Physics of Particle Accelerators

An Introduction

The complex technology of particle accelerators is based upon a series of often rather simple physical concepts. This comprehensive introduction to the subject focuses on providing a deep physical understanding of these key ideas. The book surveys the many aspects of accelerator physics and not only explains how accelerators work, but also why the underlying physics leads to a particular choice of design or technique, and points out the limitations of the technology. The clear and thorough mathematical treatment always emphasizes the physical principles described by the equations, and includes a range of calculations which develop a genuine feeling for the quantities and concepts involved.

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116,00 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780198505495

Medium: Buch

ISBN: 978-0-19-850549-5

Verlag: OUP Oxford

Erscheinungstermin: 22.02.2001

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2001

Produktform: Kartoniert

Gewicht: 506 g

Seiten: 330

Format (B x H): 156 x 234 mm

