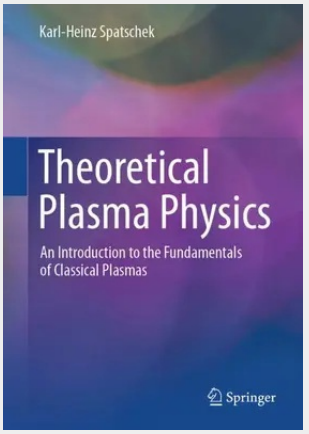
Spatschek

Theoretical Plasma Physics

An Introduction to the Fundamentals of Classical Plasmas



This book on theoretical plasma physics provides a solid introduction to the essential concepts and theories of the field. It covers both fundamental and advanced topics such as equilibrium and non-equilibrium statistics as well as the nonlinear description of a classical plasma.

With detailed chapters on single-particle motion, kinetic theory, and macroscopic descriptions, the book offers a deep understanding of the physical processes in a plasma. It is aimed at students, researchers, and professionals seeking a precise and comprehensive presentation of the methods and solution strategies for current plasma problems.

The book delivers a clear and structured presentation of classical plasma physics. It addresses current issues in fusion physics, laser plasmas, and the emerging field of complex plasmas. It serves as a reliable reference for scientific studies and practical applications.

In this second edition, the book has been thoroughly revised and updated.

This book on theoretical plasma physics provides a solid introduction to the essential concepts and theories of the field. It covers both fundamental and advanced topics such as equilibrium and non-equilibrium statistics as well as the nonlinear description of a classical plasma. With detailed chapters on single-particle motion, kinetic theory, and macroscopic descriptions, the book offers a deep understanding of the physical processes in a plasma. It is aimed at students, researchers, and professionals seeking a precise and comprehensive presentation of the methods and solution strategies for current plasma problems. The book delivers a clear and structured presentation of classical plasma physics. It addresses current issues in fusion physics, laser plasmas, and the emerging field of complex plasmas. It serves as a reliable reference for scientific studies and practical applications. In this second edition, the book has been thoroughly revised and updated.

69,54 €
64,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783662728277
Medium: Buch
ISBN: 978-3-662-72827-7
Verlag: Springer
Erscheinungstermin: 13.02.2026
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2026
Produktform: Kartoniert
Seiten: 800
Format (B x H): 168 x 240 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)