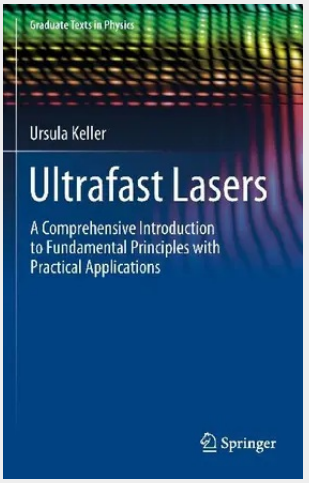
Keller

Ultrafast Lasers

A Comprehensive Introduction to Fundamental Principles with Practical Applications

This textbook presents a comprehensive introduction to ultrafast laser physics with a keen awareness of the needs of graduate students. It is self-contained and ready to use for both ultrafast laser courses and background for experimental investigation in the lab. The book starts with an advanced introduction to linear and nonlinear pulse propagation, details Q-switching and modelocking and goes into detail while explaining ultrashort pulse generation and measurement. Finally, the characterization of the laser signals is illustrated, and a broad range of applications presented. A multitude of worked examples and problems with solutions help to deepen the reader's understanding.

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117,69 €
109,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783030825317
Medium: Buch
ISBN: 978-3-030-82531-7
Verlag: Springer
Erscheinungstermin: 08.03.2022
Sprache(n): Englisch
Auflage: 1. Auflage 2021
Serie: Graduate Texts in Physics
Produktform: Gebunden
Gewicht: 1379 g
Seiten: 800
Format (B x H): 160 x 241 mm

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