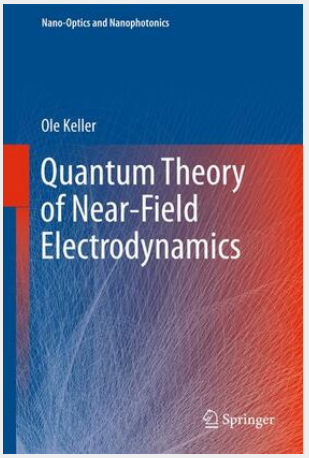
Keller

Quantum Theory of Near-Field Electrodynamics

"Quantum Theory of Near-field Electrodynamics" gives a self-contained account of the fundamental theory of field-matter interaction on a subwavelength scale. The quantum physical behavior of matter (atoms and mesoscopic media) in both classical and quantum fields is treated. The role of local-field effects and nonlocal electrodynamics, and the tight links to the theory of spatial photon localization are emphasized. The book may serve as a reference work in the field, and is of general interest for physicists working in quantum optics, mesoscopic electrodynamics and physical optics. The macroscopic and microscopic classical theories form a good starting point for the quantum approach, and these theories are presented in a manner appropriate for graduate students entering near-field optics.

Quantum Theory of Near-field Electrodynamics gives a self-contained account of the fundamental theory of field-matter interaction on a subwavelength scale. The quantum physical behavior of matter (atoms and mesoscopic media) in both classical and quantum fields is treated. The role of local-field effects and nonlocal electrodynamics, and the tight links to the theory of spatial photon localization are emphasized. The book may serve as a reference work in the field, and is of general interest for physicists working in quantum optics, mesoscopic electrodynamics and physical optics. The macroscopic and microscopic classical theories form a good starting point for the quantum approach, and these theories are presented in a manner appropriate for graduate students entering near-field optics.



267,49 €
249,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783642270635
Medium: Buch
ISBN: 978-3-642-27063-5
Verlag: Springer
Erscheinungstermin: 27.11.2013
Sprache(n): Englisch
Auflage: 2012
Serie: Nano-Optics and Nanophotonics
Produktform: Kartoniert
Gewicht: 1036 g
Seiten: 670
Format (B x H): 155 x 235 mm