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Autore	Rahimi-Iman Arash
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Descrizione fisica	1 online resource (288 pages)
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Disciplina	621.365
Soggetti	Optics Semiconductors Nanophotonics Plasmonics Quantum dots Nanotechnology Condensed matter Optics and Photonics Nanophotonics and Plasmonics Quantum Dots Two-dimensional Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Entering a Two-Dimensional Materials World -- Light-Matter Interactions for Photonic Applications -- In the Field of Quantum Technologies -- Optical Measurement Techniques -- Effects of Quantisation -- Structuring Possibilities -- Conclusion and Outlook.
Sommario/riassunto	This book introduces the wider field of functional nanomaterials sciences, with a strong emphasis on semiconductor photonics. Whether you are studying photonic quantum devices or just interested in semiconductor nanomaterials and their benefits for optoelectronic applications, this book offers you a pedagogical overview of the relevant subjects along with topical reviews. The book discusses

different yet complementary studies in the context of ongoing international research efforts, delivering examples from both fundamental and applied research to a broad readership. Science and engineering professionals in the interdisciplinary domains of nanotechnology, photonics, materials sciences, and quantum physics can familiarize themselves with selected highlights with eyes towards photonic applications in the fields of two-dimensional materials research, light–matter interactions, and quantum technologies. .
