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Soggetti	Lasers Photonics Quantum optics Electronic circuits Optics Electrodynamics Superconductivity Superconductors Optics, Lasers, Photonics, Optical Devices Quantum Optics Electronic Circuits and Devices Classical Electrodynamics Strongly Correlated Systems, Superconductivity
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Nota di contenuto	Introduction -- Review of Polariton BEC: From BEC to Polariton Condensates -- Fundamentals of Polariton Physics -- Structure and Technology -- Fundamental Spectroscopic Techniques -- Optically Excited Polariton Condensates -- Polaritons in External Fields -- Polariton Traps -- Polariton LEDs -- Polariton Laserdiodes.
Sommario/riassunto	This book offers an overview of polariton Bose–Einstein condensation and the emerging field of polaritonics, providing insights into the necessary theoretical basics, technological aspects and experimental

studies in this fascinating field of science. Following a summary of theoretical considerations, it guides readers through the rich physics of polariton systems, shedding light on the concept of the polariton laser, polariton microcavities, and the technical realization of optoelectronic devices with polaritonic emissions, before discussing the role of external fields used for the manipulation and control of exciton–polaritons. A glossary provides simplified summaries of the most frequently discussed topics, allowing readers to quickly familiarize themselves with the content. The book pursues an uncomplicated and intuitive approach to the topics covered, while also providing a brief outlook on current and future work. Its straightforward content will make it accessible to a broad readership, ranging from research fellows, lecturers and students to interested science and engineering professionals in the interdisciplinary domains of nanotechnology, photonics, materials sciences and quantum physics.

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