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Sommario/riassunto	This book covers a broad spectrum of the silicon-based materials and their device applications. This book provides a broad coverage of the silicon-based materials including different kinds of silicon-related materials, their processing, spectroscopic characterization, physical properties, and device applications. This two-volume set offers a selection of timely topics on silicon materials namely those that have been extensively used for applications in electronic and photonic technologies. The extensive reference provides broad coverage of silicon-based materials, including different types