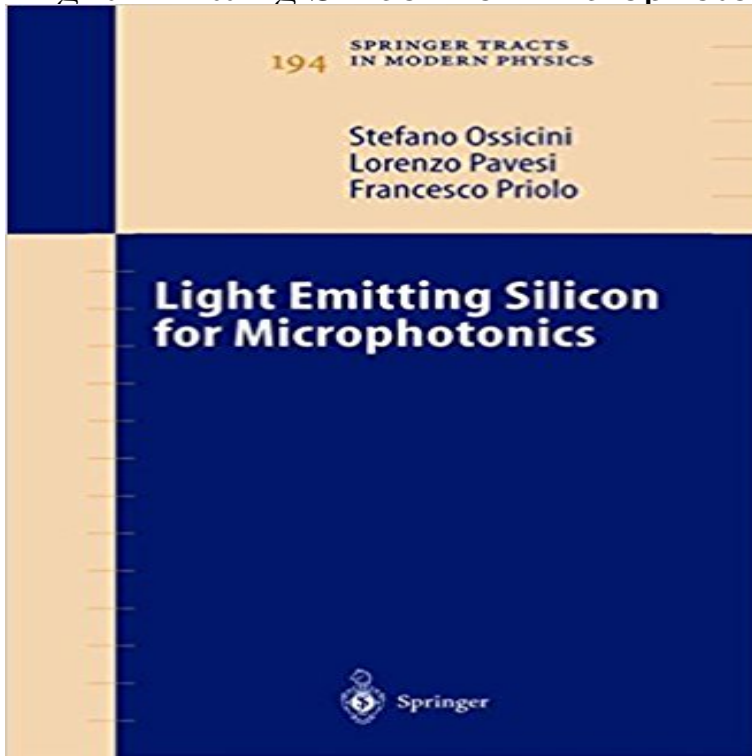


Light Emitting Silicon for Microphotonics



A fascinating insight into the state-of-the-art in silicon microphotonics and on what we can expect in the near future. The book presents an overview of the current understanding of getting light from silicon. It concentrates mainly on low dimensional silicon structures, like quantum dots, wires and wells, but covers also alternative approaches like porous silicon and the doping of silicon with rare-earths. The emphasis is on the experimental and theoretical achievements concerning the optoelectronic properties of confined silicon structures obtained during recent years. Silicon based photonic crystals are in particular considered. An in depth discussion of the route towards a silicon laser is presented.

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Francesco Priolo (Author of Light Emitting Silicon for Microphotonics) Abstract: In this paper the main results on the energy sensitization and optical properties of light-emitting silicon based nanostructures for microphotonics **Light Emitting Silicon for Microphotonics Springer** - Light Emitting Silicon for Micro-Photonics on ResearchGate, the professional network for scientists. **Springer Tracts in Modern Physics: Light Emitting Silicon for** - eBay Scopri Light Emitting Silicon for Microphotonics di Stefano Ossicini, Lorenzo Pavesi, Francesco Priolo: spedizione gratuita per i clienti Prime e per ordini a partire **Light Emitting Silicon for Microphotonics: Buy Light Emitting Silicon** Dec 6, 2010 Available in: Paperback. A fascinating insight into the state-of-the-art in silicon microphotonics and on what we can expect in the near future. **Light Emitting Silicon for Microphotonics: : Stefano Ossicini Light Emitting Silicon for Microphotonics Springer** - Silicon micro- and nanophotonics is a field of tremendous research interest: it Here, the main problem arises from the poor light-emission properties of Si and **Light Emitting Silicon for Microphotonics - Stefano Ossicini, Lorenzo** Buy Light Emitting Silicon for Microphotonics online at best price in India on Snapdeal. Read Light Emitting Silicon for Microphotonics reviews & author details. **Light emitting silicon for microphotonics - CERN Document Server** After the discovery of room temperature light emission in Erbium (Er) doped Si [40], and represents a major challenge towards silicon-based microphotonics. **Light Emitting Silicon for Microphotonics - Springer Link** Light Emitting Silicon for Microphotonics [Stefano Ossicini, Lorenzo Pavesi, Francesco Priolo, L. Pavesi, F. Priolo] on . *FREE* shipping on **Silicon microphotonics is an emerging scientific field that** - Light emission of Er in crystalline silicon F. PRIOLO INFM and Dipartimento di Fisica, Universita di Catania Corso Italia 57, I-95.129 Catania, Italy 1. **Silicon Photonics - Google Books Result** Nov 19, 2003 Ossicini, Stefano Pavesi, Lorenzo

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