Porous Silicon: From Formation to Applications: Optoelectronics, Microelectronics, and Energy Technology Applications, Volume Three: Opto- and Microelectronic Applications: 3

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Porous silicon is rapidly attracting increasing interest from various fields, including optoelectronics, microelectronics, photonics, medicine, sensor and energy technologies, chemistry, and biosensing. This nanostructured and biodegradable material has a range of unique properties that make it ideal for many applications. This book, the third of a three-volume set covering all aspects of porous silicon formation and applications, focuses on applications of porous silicon in optoelectronics, microelectronics, and energy technologies.

The book highlights the features of fabrication and performance of several forms of technology that incorporate porous silicon, including:

- Photonic crystals
- Fuel cells
- Elements of integral optoelectronics
- Solar cells
- Electroluminescence devices (LEDs)
- Batteries
- Supercapacitors
- Cold cathodes
- Hydrogen generation and storage
- Porous silicon-based composites

Porous Silicon: From Formation to Applications: Optoelectronics, Microelectronics, and Energy Technology Applications, Volume Three is an indispensable resource for scientists and engineers in industries and laboratories. It provides an updated, comprehensive, single source of information that was previously scattered across numerous journal articles. It contains a wealth of insights for designing and improving the performance of various porous silicon-based devices, and is also a significant reference for those interested in learning more about the unusual properties of porous materials and possible areas for their application.

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