



Handbook of Self Assembled Semiconductor Nanostructures for Novel Devices in Photonics and Electronics

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The self-assembled nanostructured materials described in this book offer a number of advantages over conventional material technologies in a wide range of sectors. World leaders in the field of self-organisation of nanostructures review the current status of research and development in the field, and give an account of the formation, properties, and self-organisation of semiconductor nanostructures. Chapters on structural, electronic and optical properties, and devices based on self-organised nanostructures are also included.

Future research work on self-assembled nanostructures will connect diverse areas of material science, physics, chemistry, electronics and optoelectronics. This book will provide an excellent starting point for workers entering the field and a useful reference to the nanostructured materials research community. It will be useful to any scientist who is involved in nanotechnology and those wishing to gain a view of what is possible with modern fabrication technology.

Mohamed Henini is a Professor of Applied Physics at the University of Nottingham. He has authored and co-authored over 750 papers in international journals and conference proceedings and is the founder of two international conferences. He is the Editor-in-Chief of *Microelectronics Journal* and has edited three previous Elsevier books.

Key Features:

- Contributors are world leaders in the field
- Brings together all the factors which are essential in self-organisation of quantum nanostructures
- Reviews the current status of research and development in self-organised nanostructured materials
- Provides a ready source of information on a wide range of topics
- Useful to any scientist who is involved in nanotechnology
- Excellent starting point for workers entering the field
- Serves as an excellent reference manual

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