



Diamond: Electronic Properties and Applications [

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Springer US :
Imprint: Springer,
1995

Libros electrónicos

Monografía

The use of diamond in electronic applications is not a new idea, but limitations in size and control of properties restricted the use of diamond to a few specialised applications. The vapour-phase synthesis of diamond, however, has facilitated serious interest in the development of diamond-based electronic devices. The process allows diamond films to be laid down over large areas. Both intrinsic and doped diamond films have a unique combination of extreme properties for high speed, high power and high temperature applications. The eleven chapters in Diamond: Electronic Properties and Applications, written by the world's foremost experts on the subject, give a complete characterisation of the material, in both intrinsic and doped forms, explain how to grow it for electronic applications, how to use the grown material, and a description of both passive and active devices in which it has been used with success. Diamond: Electronic Properties and Applications is a compendium of the available literature on the subject. The book is an invaluable resource for research scientists and device engineers

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Título: Diamond: Electronic Properties and Applications recurso electrónico] edited by Lawrence S. Pan, Don R. Kania

Editorial: Boston, MA Springer US Imprint: Springer 1995

Descripción física: XIV, 472 p. online resource

Mención de serie: Chemistry and Materials Science (Springer-11644) The Kluwer International Series in Engineering and Computer Science, Electronic Materials: Science and Technology 1386-3290

Documento fuente: Springer eBooks

ISBN: 9781461522577 978-1-4615-2257-7

Materia: Optical materials Surfaces (Physics)

Autores: Kania, Don R., editor Pan, Lawrence S., editor

Entidades: SpringerLink (Online service)

Enlace a formato físico adicional: Printed edition 9780792395249

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