

Study of Defect States in Silicon Carbide

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Reviews

I just started looking over this ebook. It is actually rally fascinating throgh reading period of time. You wont really feel monotony at anytime of your time (that's what catalogues are for about when you request me). (*Miss Naomie Kohler PhD*)

STUDY OF DEFECT STATES IN SILICON CARBIDE



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Current power electronics world require semiconductor devices which are capable of highly reliable performances under extreme conditions of voltages and temperature. Wide band gap semiconductors are more suitable in comparison to the traditional semiconductors in such cases. One such semiconductor currently in focus is SiC. This book describes the strucutral, electronic and magnetic properties of SiC. It presents the results of coputational studies of few intrinsic and extrinsic impurities in SiC and their combination too. Many conclusions are found which can throw some light on its practical usefulness. The impurities considered are, B, Al, Ga, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn and W. We have used first principle density functional theory with different exchange and correlation schemes using pseudopotentials to perform the electronic structure calculations of several defects in SiC. The theoretical background for computation has also been described in this book. | Format: Paperback | Language/Sprache: english | 200 pp.

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