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Quantum and Semi-classical Percolation and Breakdown in Disordered Solids

By Kamal K. Bardhan

Springer-Verlag GmbH Mrz 2009, 2009. Buch. Condition: Neu. Neuware - This lecture notes in physics volume mainly focuses on the semi classical and quantum aspects of percolation and breakdown in disordered, composite or granular systems. The main reason for this undertaking has been the fact that, of late, there have been a lot of (theoretical) work on quantum percolation, but there is not even a (single) published review on the topic (and, of course, no book). Also, there are many theoretical and experimental studies on the nonlinear current-voltage characteristics both away from, as well as one approaches, an electrical breakdown in composite materials. Some of the results are quite intriguing and may broadly be explained utilising a semi classical (if not, fully quantum mechanical) tunnelling between micron or nano-sized metallic islands dispersed separated by thin insulating layers, or in other words, between the dangling ends of small percolation clusters. There have also been several (theoretical) studies of Zener breakdown in Mott or Anderson insulators. Again, there is no review available, connecting them in any coherent fashion. A compendium volume connecting these experimental and theoretical studies should be unique and very timely, and hence this volume. The...



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