



# Transport Processes in Macroscopically Disordered Media: From Mean Field Theory to Percolation

*Andrei A. Snarskii, Igor V. Bezsudnov, Vladimir A. Sevrukov, Alexander Morozovskiy, Joe Malinsky*

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reflects on recent advances in the understanding of percolation systems to present a wide range of transport phenomena in inhomogeneous disordered systems. Further developments in the theory of macroscopically inhomogeneous media are also addressed. These developments include galvano-electric, thermoelectric, elastic properties,  $1/f$  noise and higher current momenta, Anderson localization, and harmonic generation in composites in the vicinity of the percolation threshold.

The book describes how one can find effective characteristics, such as conductivity, dielectric permittivity, magnetic permeability, with knowledge of the distribution of different components constituting an inhomogeneous medium. Considered are a wide range of recent studies dedicated to the elucidation of physical properties of macroscopically disordered systems.

This book contains a straightforward set of useful tools which will allow the reader to derive the basic physical properties of complicated systems together with their corresponding qualitative characteristics and functional dependencies.

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