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The possibility that a wave can become localized in a random medium is especially intriguing because localization involves a change in the basic wave character. In an infinite, uniform medium, a (plane) wave may be characterized by a frequency and a direction of propagation. In contrast, a wave cannot propagate freely in a disordered medium because of the many scatterings it encounters.

Waves represent a classic topic of study in physics, mathematics, and engineering. Many modern technologies are based on our understanding of waves and their interaction with matter. In the past thirty years there have been some revolutionary developments in the study of waves. The present...

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Introduction to wave scattering, localization, and Mesoscopic Phenomena


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