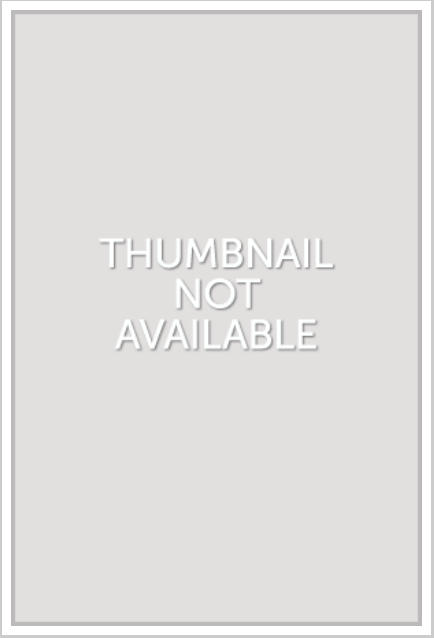

Waves and Imaging through Complex Media

By Sebbah, P.

Book Condition: New. Publisher/Verlag: Springer Netherlands | Recent advances in wave propagation in random media are certainly consequences of new approaches to fundamental issues, as well as of a strong interest in potential applications. A collective effort has been made to present in this book the state of the art in fundamental concepts, as well as in biomedical imaging techniques. As an example, the recent introduction of wave chaos, and more specifically random matrix theory - an old tool from nuclear physics - to the study of multiple scattering, has pointed the way to a deeper understanding of wave coherence in complex media. At the same time, efficient new approaches for retrieving information from random media promise to allow wave imaging of small tumors in opaque tissues. Review chapters are written by experts in the field, with the aim of making the book accessible to the widest possible scientific audience: graduate students and research scientists in theoretical and applied physics, optics, acoustics, and biomedical physics. | Preface. Part I: Introduction. 1. Wave Chaos and Multiple Scattering: a Story of Coherence; O. Legrand. 2. Towards Optical Biopsy: a Brief Introduction; A.C. Boccara, P.M.W. French. Part II: Multiple Wave Scattering. 1. Coherent...

Reviews

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