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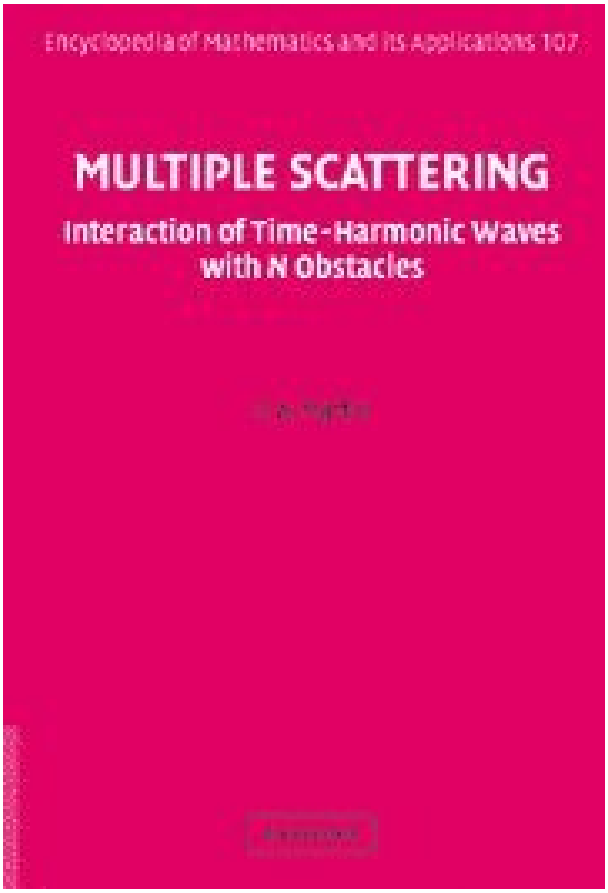


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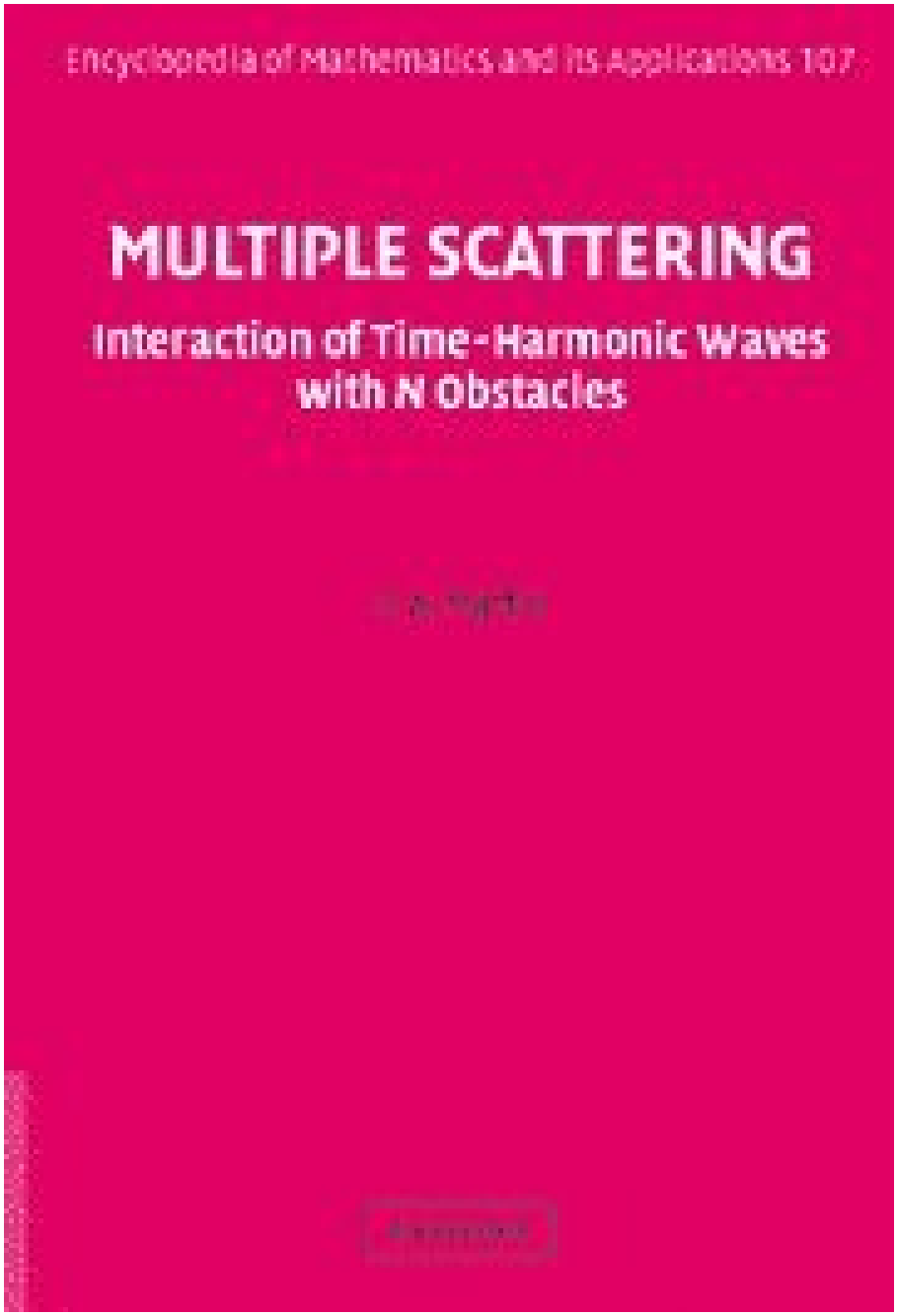

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Review
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About the Author

The author is a Professor in the Department of Mathematical and Computer Sciences, Colorado School of Mines, USA. Before moving there in 1999, he was a Reader in the Department of Mathematics, University of Manchester. He has been an Executive Editor of the Quarterly Journal of Mechanics and Applied Mathematics for 15 years. He is an Associate Editor of the SIAM Journal on Applied Mathematics and of the Journal of Integral Equations and Applications, and he is a member of the Editorial Board of the Proceedings of the Royal Society A. He has published about 100 papers in refereed journals and over 40 papers in conference proceedings and edited books.

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The interaction of waves with obstacles is an everyday phenomenon in science and engineering, arising for example in acoustics, electromagnetism, seismology and hydrodynamics. The mathematical theory and technology needed to understand the phenomenon is known as multiple scattering, and this book is the first devoted to the subject. The author covers a variety of techniques, describing first the single-obstacle methods and then extending them to the multiple-obstacle case. A key ingredient in many of these extensions is an appropriate addition theorem: a coherent, thorough exposition of these theorems is given, and computational and numerical issues around them are explored. The application of these methods to different types of problems is also explained; in particular, sound waves, electromagnetic radiation, waves in solids and water waves. A comprehensive bibliography of some 1400 items rounds off the book, which will be an essential reference on the topic for applied mathematicians, physicists and engineers.

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