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revolutionized the ways in which waves are controlled and applied in physics and practical situations. The extraordinary properties of metamaterials such as their locally resonant structure with deep subwavelength band gaps and their ranges of frequency where propagation is impossible have opened the way to a host of applications that were previously unavailable. Acoustic metamaterials have been able to replace traditional treatments in several sectors due to their better performance in targeted and tunable frequency ranges with strongly reduced dimensions. This is a training book composed of nine chapters written by experts in the field giving a broad overview of acoustic metamaterials and their uses. The book is divided into three parts covering the state of the art the fundamentals and the real life applications of acoustic metamaterials.

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