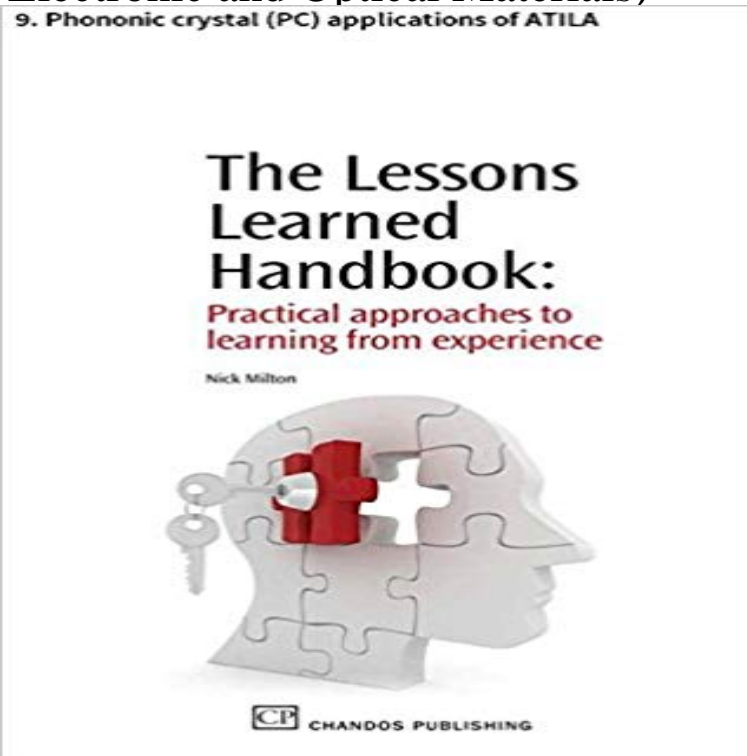


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Phononic crystals (PCs) are usually defined as artificial materials made of periodic arrangement of scatterers embedded in a matrix. The band structure of PCs may present under certain conditions absolute band gaps: they display frequency ranges in which waves cannot propagate. This fact is analogous to photonic band gaps for electromagnetic waves. Therefore, such systems can be applied as noise and vibration isolation, acoustic wave guiding, acoustic filters, etc. Moreover, band structures of PCs may exhibit dispersion curves with a negative slope, inducing negative refraction phenomenon. In this chapter, the general formalism is first presented. It is applied in the second part to a phononic crystal inducing filtering application and in the last section, negative refraction of elastic waves is presented for focusing application.

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