
Les Métamatériaux Mécaniques : Architecturer pour fonctionnaliser...

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Résumé

1. Wave propagation – back to basics

2. Modeling aspects

a) Wave Finite Elements WFE

b) Shift cell operator for multiphysic coupled metamaterial

c) Plane Wave Expansion PWE

3. Design functional structures using band gap properties

a) Waves diffusion : Reflection and absorption

b) The boundary : a limit for the band gap efficiency

4. Beyond the Band –Gap

a) Lensing

b) Reciprocity breaking and diode

c)...

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