

Wave Propagation In Periodic Structures

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Wave Propagation in Periodic Structures: Brillouin L ...

The velocity of propagation for very long waves is d/λ where d is the distance between condensers; there is a cutoff frequency ω_m , and all frequencies higher than ω_m decay exponentially; v is a periodic function of the wave number. From Eq. (9.4) we may compute the cutoff frequency.

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Wave propagation in periodic structures;; Electric filters ...

As follows from Floquet theory, wave propagation in a periodic structure is possible only when the characteristic equation has at least one purely real root β for a given ω . Thus, only these roots should be determined and it is sufficient to consider the interval $0 \leq \beta \leq \pi$ due to the periodicity of the function $\exp(i\beta B)$. 4

WAVE PROPAGATION IN PERIODIC STRUCTURES

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Wave Propagation in Continuous Periodic Structures ...

Abstract. After brief reference to some early studies by other investigators, this paper focuses mainly on methods developed at the University of Southampton since 1964 to analyze and predict the free and forced wave motion in continuous periodic engineering structures. Beginning with receptance methods which have been applied to periodic beams and rib-skin structures, it continues with a method of direct solution of the wave equation.

WAVE PROPAGATION IN CONTINUOUS PERIODIC STRUCTURES ...

We have investigated classical waves propagating in periodic binary composites. For electromagnetic waves the network topology, in which the low-velocity material forms a continuous network, is more favorable for the appearance of gaps.

Classical wave propagation in periodic structures: Cermet ...

Electromagnetic wave propagation in periodic structures: Bloch wave solution of Maxwell's equations

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We study wave propagation properties in time-spatial periodic structures by computing and analyzing band diagrams for said structures. The approach followed in this work exploits the periodic nature of the considered modulation of the material properties functions and ϵ . Both are periodic in the variables x and t with periodicity a and T , respectively. It is then possible to express them by using the following Fourier series representations:

Non-reciprocal elastic wave propagation in spatiotemporal ...

For the periodic multilayered structure, the localization factor is related with the minimum eigenvalue of the transfer matrix of a single cell. 3) At the normal propagation situation, LD wave is uncoupled with CT3 wave and CT4 wave while CT3 wave and CT4 wave are coupled together. As a result, Bloch LD wave is uncoupled with Bloch CT wave.

The elastic wave propagation through the finite and ...

Abstract: The theory and recent applications of waves in periodic structures are reviewed. Both the Floquet and coupled waves approach are analyzed in some detail. The theoretical part of the paper includes wave propagation in unbounded and bounded active or passive periodic media, wave scattering from periodic boundaries, source radiation (dipole, Cerenkov, transition, and Smith-Purcell) in-periodic media, and pulse transmission through a periodic slab.

Waves in active and passive periodic structures: A review ...

Wave Propagation in Periodic Structures: Electric Filters and Crystal Lattices (McGraw-Hill, 1946) (Dover, 1953, 2003) Les Tenseurs en mécanique et en élasticité: Cours de physique théorique (Dover, 1946) Mathématiques (Masson, 1947) Notions élémentaires de mathématiques pour les sciences expérimentales (Masson, 1947)

Léon Brillouin - Wikipedia

Elastic wave propagation in high-rise buildings is studied using a Timoshenko beam model with rigid floor slabs, with the objective of gaining insight into the effects of their repeatable arrangement. The propagator of the composite beam was derived in the frequency domain and used to compute the state vector for input base translation and rocking. Further, the dispersion relation was derived for Bragg scattering from the slabs for an infinite, periodic beam.

Wave Propagation in Buildings as Periodic Structures ...

related to propagation of waves in continuous media thus dispersion parameters such as wavenumber and wave impedance or permeability and

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This chapter discusses guided waves propagating along a periodic structure, waves propagating through periodic layers, and plane waves incident on periodic structures. In discussing these problems, it presents integral equation formulations that are used extensively in many electromagnetic problems. The chapter also discusses a classical problem of scattering by sinusoidal surfaces and includes a short description of coupled-mode theory.

Periodic Structures and Coupled-Mode Theory ...

Abstract A few of the properties of electromagnetic waves in periodic structures are considered, with some discussion of propagation in open-boundary structures. Iris-loaded waveguides of standard cross section are then analyzed to obtain an accurate solution for the propagation constant.

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