

Wave Propagation In Periodic Structures

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Wave Propagation In Periodic Structures

and an overview of state-of-the art applications of wave propagation in linear and nonlinear periodic media. The course content is tailored to senior undergraduate and graduate students majoring in ...

MECH_ENG 495: Selected Topics: Elastic Wave Propagation in Periodic Media

a review of experimental techniques for actuation and detection of elastic waves, and an overview of state-of-the art applications of wave propagation in linear and nonlinear periodic media.

CIV_ENV 419: Elastic Wave Propagation in Periodic Solids

The wave nature of light and sound has been extensively ... their constructive and destructive interference. Specifically designed periodic structures can even fully control the propagation of light ...

Heat conduction tuning by wave nature of phonons

Nanophotonics is where photonics merges with nanoscience and nanotechnology, and where spatial confinement considerably modifies light propagation and light-matter ... to give a parallel discussion of ...

Introduction to Nanophotonics

Moreover, as wave physics are universal ... In another scenario, we fabricated deterministic aperiodic structures (DAS) in the shape of two-dimensionally arranged binary Fibonacci words. Light ...

Aperiodic deterministic & random photonic structures

Due to the disordered amorphous structure of glassy ... separated nanocavities to wave-like nanocorrugations, and confirmed that cavitation is the origin of periodic fracture surface patterns.

Scientists observe role of cavitation in glass fracturing

Since the periodic intensity profile of such waves does not change during propagation ... the symmetry of the induced refractive index structure can significantly differ from that of the lattice wave.

Two-dimensional photonic structures

Thus, we can record (with acceptable measurement error) UHF-band wave polarization change because of propagation medium ... water molecules statistic dipole structures in the solution.

A new radio-frequency acoustic method for remote study of liquids

If I were to describe my research in one sentence, it would be "understanding, controlling and optimising the behaviour of a material by understanding, controlling and optimising its micro-structure .

Dr Inna M. Gitman

The presented structure improves ... introduction of periodic holes causes a certain degree of

coupling between the resonance mode of the scatterer and the long traveling wave in XY mode in ...

Tunable characteristics of low-frequency bandgaps in two-dimensional multivibrator phononic crystal plates under prestrain

Many properties of the elements vary in a periodic way as they increase in atomic mass (or atomic number, in the present view) and these variations are codified in periodic tables that were first ...

Chemistry Outcomes Review: Chapter 4

This periodic structure leads to complications in both the analytic and the numerical treatment of these problems,... Scattering theories can provide methods for developing robust approximation ...

Mathematical Analysis of Deterministic and Stochastic Problems in Complex Media Electromagnetics

A depth-averaged model in the frame of reference of the advancing air-liquid interface is used to investigate the steady and unsteady interface propagation ... solution structure with a wide range of ...

Modelling finger propagation in elasto-rigid channels

"Quantitative amplification of weak images by nonlinear propagation" Laura Waller ... Segev, "Introduction to solitons in photonic lattices," Nonlinearities in Periodic Structures and Metamaterials, ...

Imaging Physics Group

These transmitters cover a wide range of frequencies, which is really useful for radio remote sensing, as radio propagation characteristics ... from the BBC short wave radio.

Building Your Own SDR-based Passive Radar On A Shoestring

"Quantitative amplification of weak images by nonlinear propagation" Laura Waller ... Segev, "Introduction to solitons in photonic lattices," Nonlinearities in Periodic Structures and Metamaterials, ...

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Due to the disordered amorphous structure of glassy materials ... of crack morphologies from separated nanocavities to wave-like nanocorrugations, and confirmed that cavitation is the origin of ...

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