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mathematical and physical properties.
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wave equations encountered in physics or in engineering. The main goal is to present a detailed analysis of their mathematical and physical properties. Wave equations are time dependent. However, use of the Fourier transform reduces their study to that of harmonic systems: the ...

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Helmholtz equation, in the case of the
acoustic equation, or the harmonic
Maxwell system.

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Acoustic versus electromagnetic field
theory: scalar, vector, spinor
representations and the emergence of

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with independent microscopic
derivations of the acoustic equations
from the Lagrange picture of an acoustic
medium the integral spin over the
volume vanishes .

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The Operator Equations of Lippmann-Schwinger Type for Acoustic and Electromagnetic Scattering Problems in L^2 A. Kirsch* A. Lechleiter* August 6, 2008 Abstract This paper is concerned with the scattering of acoustic and electromagnetic time harmonic plane waves by an inhomogeneous medium. These problems can be translated into

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integral equations arising in the problem
of acoustic wave scattering by
penetrable obstacles, electromagnetic
wave scattering by a perfect electric
conductor and heat conduction in the

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presence of a bounded inclusion. There are two sources of the numerical error: the error between the exact solution and spatial semidiscrete solution,

Time domain boundary integral equation methods in ...

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problems. [Jean-Claude Nedelec] -- This self-contained book is devoted to the study of the acoustic wave equations and the Maxwell system, the two most common waves equations that are encountered in physics or engineering.

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Applications to acoustic and

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Integral Representations For
electromagnetic scattering, radar
imaging; Prerequisites: Familiarity with
ordinary differential equations, partial
differential equations, Fourier
transforms, linear algebra, and basic
numerical methods for PDE, at the level
of 18.085. The assignments will involve
computer programming in the language
of your choice ...

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**Fast Methods for Partial Differential
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Maxwell's equations are a set of coupled partial differential equations that, together with the Lorentz force law, form the foundation of classical electromagnetism, classical optics, and electric circuits. The equations provide a

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mathematical model for electric, optical,
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and radio technologies, such as power
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generation, electric motors, wireless
communication, lenses, radar etc.

Maxwell's equations - Wikipedia

Many important partial differential
equation problems in homogeneous
media, such as those of acoustic or

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electromagnetic wave propagation, can be represented in the form of integral equations on the boundary of the domain of interest. In order to solve such problems, the boundary element method (BEM) can be applied.

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After obtaining expressions for the signatures of layer potentials in the spherical harmonic or vector spherical harmonic basis, we turn to a consideration of various integral equations that have been proposed in the literature for problems of acoustic and electromagnetic scattering.

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