

Wave boundary elements: a theoretical overview presenting applications in scattering of short waves

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Abstract

It is well known that the use of conventional discrete numerical methods of analysis (FEM and BEM) in the solution of Helmholtz and elastodynamic wave problems is limited by an upper bound on frequency. The current work addresses this problem by incorporating the underlying wave behaviour of the solution into the formulation of a boundary element, using ideas arising from the Partition of Unity finite element methods. The resulting ‘wave boundary elements’ have been found to provide highly accurate solutions (10 digit accuracy in comparison with analytical solutions is not uncommon). Moreover, excellent results are presented for models in which each element may span many full wavelengths. It has been found that the wave boundary elements have a requirement to use only around 2.5 degrees of freedom per wavelength, instead of the 8–10 degrees of freedom per wavelength required by conventional direct collocation elements, extending the supported frequency range for any given computational resources by a factor of three for 2D problems, or by a factor of 10–15 for 3D problems. This is expected to have a significant impact on the range of simulations available to engineers working in acoustic simulation. This paper presents an outline of the formulation, a description of the most important considerations for numerical implementation, and a range of application examples.

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Keywords: Helmholtz problems; Elastodynamics; Boundary elements; Plane wave basis; Partition of unity methods; Short wave analysis

1. Introduction

The use of numerical methods has become widespread in the analysis of a wide variety of wave problems. We focus here on the analysis of the propagation of acoustic and elastodynamic waves, by radiation or scattering, through isotropic media. Starting with the acoustic wave case, this is governed in the frequency domain by the well-known Helmholtz equation

$$\nabla^2 \phi + k^2 \phi = 0 \quad (1)$$

where ϕ is a potential function whose complex nature provides information on both the magnitude and phase of oscillation. The wave number, k , is given by

$$k = \frac{2\pi}{\lambda} \quad (2)$$

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where λ is the wavelength, and therefore the wave number is seen as a mathematically convenient way of expressing the frequency, ω , under consideration. The potential ϕ expresses the spatial variation of the wave, and may be simply multiplied by $e^{-i\omega t}$ to arrive at the time-varying field.

In order to present the new work in wave boundary elements, it is necessary first to present a brief overview of the mathematical formulation of the conventional direct collocation boundary element method [1]. Here, the potential and its normal derivative on the boundary are expressed in a weak form integral equation

$$\frac{\phi(x)}{2} + \int_r \frac{\partial G(x, y)}{\partial \mathbf{n}} \phi(y) d\Gamma_y = \int_r \frac{\partial \phi(y)}{\partial \mathbf{n}} G(x, y) d\Gamma_y \quad (3)$$

where x and y are, respectively, the locations of a fictitious source and a ‘field’ point, both on the boundary, Γ , to the domain. Γ is assumed here to be smooth. The term $G(x, y)$ is the so-called fundamental solution, or free-space Green’s function, describing the problem. For 2D problems this is

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web john steinbeck and the pearl background john steinbeck was born in salinas california in 1902 he was the third of four children and the only son of john steinbeck sr and olive hamilton steinbeck growing up in a rural valley near the pacific coast steinbeck was an intense reader and both his father a local government official and his