Eigenvalue approximations of the wave equation with local Kelvin-Voigt damping
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Abstract:

Eigenvalue approximations of the wave equation with local Kelvin-Voigt damping are presented using the well known Chebyshev-Tau spectral method. The problem is formulated in two ways: the first is on one spatial domain while the second is on two spatial domains. Several eigenvalue problems for each method were solved and compared. In general, low frequency eigenvalues were the same for both methods. A brief discussion of inaccurate eigenvalue approximations is also given.

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SCC 130
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