

NUMERICAL APPROXIMATION OF EIGENVALUES FOR
TRANSVERSE VIBRATIONS OF A WEDGE-SHAPED BEAM

C. Belingeri, B. Germano

Dipartimento di Metodi e Modelli Matematici per le Scienze Applicate
Facoltà di Ingegneria Università di Roma "La Sapienza"
Via A. Scarpa 16, 00161 Roma, Italy.

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Abstract

In this paper a method for computing the eigenvalues of differential problem connected with transverse vibrations of a simply supported wedge-shaped beam is considered. By using an iterative method for computing the eigenvalues of Fredholm second kind equation (see[1]), previous approximations are improved (see[3]).

Key words and phrases: Fredholm integral equations; Eigenvalues; Rayleigh-Ritz method; Inverse powers method.

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