

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

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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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