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Characteristics of discrete schemes used in stability problems of rods and shells. (English. Russian original) [Zbl 0477.73076](#)

Sov. Appl. Mech. 17, 265-270 (1981); translation from *Prikl. Mekh.* 17, No. 3, 74-80 (1981).

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MSC:

- 74S30 Other numerical methods in solid mechanics (MSC2010)
- 49M25 Discrete approximations in optimal control
- 74G60 Bifurcation and buckling
- 74K25 Shells
- 65L10 Numerical solution of boundary value problems involving ordinary differential equations
- 74K15 Membranes
- 65L60 Finite element, Rayleigh-Ritz, Galerkin and collocation methods for ordinary differential equations

Cited in 1 Review

Keywords:

variable parameters; local stability; shells of revolution; shallow orthotropic shells; axisymmetric loads; separation of variables; four homogeneous boundary conditions; minimum value of external loading parameter; nontrivial solution; approximating the derivatives by finite difference ratios; order of accuracy equal to square of step size of discrete net; reduced to system of linear homogeneous algebraic equations

Full Text: [DOI](#)

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