

Kamiya, N.; Sawaki, Y.; Nakamura, Y.

Finite and postbuckling deformations of heated plates and shallow shells. (English)

Zbl 0544.73061

Boundary elements, Proc. 5th int. Conf., Hiroshima 1983, 507-516 (1983).

[For the entire collection see [Zbl 0521.00024](#).]

The authors study a further application of the boundary element method for buckling and postbuckling analysis of flat plates subject to thermal loadings. This method has already been applied by the authors in separate papers [e.g. Boundary element methods in engineering, Proc. 4th int. Semin., Southampton/Engl. 1982, 515-525 (1982; [Zbl 0512.73081](#))].

Reviewer: [S.Sburlan](#)

MSC:

- [74B20](#) Nonlinear elasticity
- [74G60](#) Bifurcation and buckling
- [74S99](#) Numerical and other methods in solid mechanics
- [65R20](#) Numerical methods for integral equations
- [74K20](#) Plates
- [74K15](#) Membranes

Cited in **3** Documents

Keywords:

shallow shell; thermal field; Berger equation; finite deflection; boundary element method; buckling and postbuckling; flat plates; thermal loadings