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Stability analysis of an orthotropic plate via mathematica

Stability analysis of an orthotropic plate is studied using the algebra system Mathematica. The critical force is computed for given material parameters, geometry and load type (direct problem). Then the critical force is assumed to be known and the material and geometric parameters are computed (inverse problem). The inverse problem can be treated similarly to the direct problem because the numerical solution of both problems can be reduced to the symbolic-numerical solution of a matrix eigenvalue problem.

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