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**Green's function for a pre-stressed thin plate on an elastic foundation under axisymmetric loading.** (English) [Zbl 1182.74141](#)

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Summary: Green's functions are obtained for an infinite pre-stressed (compressed or stretched) thin plate on an elastic foundation under axisymmetric loading. The analytical procedure for the solution of the derived fundamental differential equation of a pre-stressed thin plate on an elastic foundation is based on Hankel's integral transforms and generalized functions theory. Numerical examples are included.

**MSC:**

[74K20](#) Plates

Cited in 4 Documents

**Keywords:**

Green's function; plate; elastic foundation; Hankel's transform; axisymmetric loading

**Full Text:** [DOI](#)

**References:**

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