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Spline-Interpolation Solution of One Elasticity Theory Problem

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About the ebook

The book explains methods of solving elasticity problems for special solids. Approximate methods (Finite Element Method, Boundary Element Method) have been used to solve these problems. The interpolation and the spline-interpolation solutions of the 3D problem of the theory of elasticity have been constructed in this work.

Contents

- ▶ Polynomial solution of the system of the equilibrium equations
- ▶ Interpolation solution of the second basic problem of elasticity for the circular cylinder
- ▶ Interpolation solution of the problems of elasticity for the pressurized tube
- ▶ Interpolation solution of the problem of elasticity for the non-circular cylinder
- ▶ Spline-interpolation solutions for the circular cylinder and for the tube
- ▶ Spline-interpolation solution for a solid of revolution
- ▶ Spline-interpolation solution for asymmetric cones or conoids
- ▶ Dynamic problems

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