Strong unique continuation at the boundary in linear elasticity and its connection with optimal stability in the determination of unknown boundaries

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Abstract: Quantitative estimates of Strong Unique Continuation at the boundary for solutions to the isotropic Kirchhoff-Love plates subject to Dirichlet conditions, and for solutions to the Generalized plane stress problem subject to Neumann conditions are presented. These results have been applied to prove optimal stability estimates for the inverse problem of determining unknown boundaries.

References:


