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Numerical Approximation for the Minimal Energy Function Relative to the Null Controllability of the Thermoelastic Parabolic System.

Work done by R. Triggiani showed the exacty null-controllability and blow-up estimates of the thermoelastic system. This talk will complement these results by first implementing their methods to construct controls and solutions, and then to verify the controllability and blow up estimates using spectral and finite difference methods. (Received August 19, 2005)