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On a nonlinear coupled system of thermoelastic type with acoustic boundary conditions.

(English) [Zbl 1362.35046](#)

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Summary: This paper deals with the existence, uniqueness, and asymptotic behavior of global solutions for a parabolic-hyperbolic coupled system with both local and nonlocal nonlinearities under mixed nonlinear acoustic boundary conditions.

MSC:

[35B40](#) Asymptotic behavior of solutions to PDEs

[35L20](#) Initial-boundary value problems for second-order hyperbolic equations

[74F05](#) Thermal effects in solid mechanics

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nonlinear coupled system; local and nonlocal nonlinearities; mixed nonlinear boundary conditions

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