

EXPONENTIAL STABILITY FOR A FLEXIBLE STRUCTURE WITH FOURIER'S TYPE HEAT CONDUCTION AND DISTRIBUTED DELAY

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Abstract. In this paper, we study the well-posedness and asymptotic behaviour of solutions to a flexible structure with Fourier's type heat conduction and distributed delay. We prove the well-posedness by using the semigroup theory. Also we establish a decay result by introducing a suitable Lyapunov functional.

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