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Semigroups associated with dissipative Systems

The asymptotic stability of the C_0 -semigroup associated with the initial value problem (4)-(6) has been studied in in the case $g \equiv 0$, where a class of linear dissipative evolution equations is...

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Such damping mechanisms, for which the corresponding system defines a semigroup which is not exponentially stable, we call weak dissipation. The rest of this work is organized as follows. In Section 2, we show, under suitable hypotheses on the operators A , B , and C , the existence of solutions to equation (1.1). Finally, in Section 3,

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Motivated by applications to control theory and to the theory of partial differential equations (PDE's), the authors examine the exponential stability and analyticity of C_0 -semigroups associated with various dissipative systems.

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Summary: Combining a theory from semigroup theory with partial differential equation techniques, this work presents a systematic approach to proving exponential stability. It provides a tool useful in determining whether these properties will preserve for a given dissipative system.

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On the nature of dissipative Timoshenko systems at light of the second spectrum of frequency. Zeitschrift für angewandte Mathematik und Physik, Vol. 68, Issue. 6, CrossRef; ... [14] Liu, Z. & Zheng, S. (1999) Semigroups Associated with Dissipative Systems, CRC Reseach Notes in Mathematics, Vol. 398, Chapman & Hall.

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We show that the semigroup associated with system (4) decays exponentially to zero provided that $\beta > 1$ and $\gamma > 1$ (see Section 4). On the other hand, if $\beta < 1$ and $\gamma < 0$, then the semigroup is not exponentially stable (see Section 5).