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Semigroups Associated with Dissipative Systems. Z Liu, Songmu Zheng. 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 C0-semigroups associated with various dissipative systems. They present a unique, systematic approach in which they prove exponential stability by combining a theory from semigroup theory with partial differential equation techniques, and use an analogous ...

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Semigroups associated with dissipative Systems

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

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Z. Liu and S. Zheng. Semigroups associated with dissipative systems, In CRC Research Notes in Mathematics 398, Chapman 65 Hall, (1999). 2. L. Gearhart, Spectral theory for contraction semigroups on Hilbert spaces, Trans. AMS 236, 385-394, (1978).

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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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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.

Stability to the dissipative Reissner-Mindlin-Timoshenko ...

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Open quantum systems weakly coupled to the environment are modeled by completely positive, trace preserving semigroups of linear maps. The generators of such evolutions are called Lindbladians. In the setting of quantum many-body systems on a lattice it is natural to consider Lindbladians that decompose into a sum of local interactions with decreasing strength with respect to the size of their ...