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Semigroups associated with dissipative Systems. Zhuangyi Liu. University of Minnesota, Duluth. Songmu Zheng. Fudan University, Shanghai. Semigroups associated with dissipative Systems. CHAPMAN & HALL/CRC. Boca Raton London New York Washington, D.C.

### 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...

### Asymptotic stability of semigroups associated to linear ...

A.F. Pazoto, J.C. Vila Bravo, J.E. Muñoz Rivera, Asymptotic stability of semigroups associated to linear weak dissipative systems, Math. Comput. Modelling 40 (3–4) (2004) 387–392. [3] B.-Z. Guo, On the exponential stability of  $C_0$ -semigroups on Banach spaces with compact perturbations, Semigroup Forum 59 (2) (1999) 190–196. [4] B.

### Asymptotic stability of semigroups associated with linear ...

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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Z. Liu and S. Zheng, Semigroups associated with dissipative systems, In CRC Research Notes in Mathematics 398, Chapman & Hall, (1999). 2. L. Gearhart, Spectral theory for contraction semigroups on Hilbert spaces,

Trans. AMS 236, 385-394, (1978).

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Z. Liu and S. Zheng, Semigroups Associated with Dissipative Systems, vol. 398 of Chapman & Hall/CRC Research Notes in Mathematics, Chapman & Hall/CRC, Boca Raton, Fla, USA, 1999. View at: Zentralblatt MATH | MathSciNet

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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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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.

**Semigroups Associated with Dissipative Systems : Zhuangyi ...**

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.

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

We show that the semigroup associated with system (4) decays exponentially to zero provided that  $\beta \geq 1$  and  $0 \leq \gamma \leq 1$  (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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