



Stability and Stabilization of Infinite Dimensional Systems with Applications (Communications and Control Engineering)

Zheng-Hua Luo, Bao-Zhu Guo, Ömer Morgül

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The time evolution of many physical phenomena in nature can be described by partial differential equations. To analyze and control the dynamic behavior of such systems, infinite dimensional system theory was developed and has been refined over the past several decades. In recent years, stimulated by the applications arising from space exploration, automated manufacturing, and other areas of technological advancement, major progress has been made in both theory and control technology associated with infinite dimensional systems. For example, new conditions in the time domain and frequency domain have been derived which guarantee that a Co-semigroup is exponentially stable; new feedback control laws have been proposed to exponentially stabilize beam, wave, and thermoelastic equations; and new methods have been developed which allow us to show that the spectrum-determined growth condition holds for a wide class of systems. Therefore, there is a need for a reference book which presents these results in an integrated fashion. Complementing the existing books, e. g. . . [1], [41], and [128], this book reports some recent achievements in stability and feedback stabilization of infinite dimensional systems. In particular, emphasis will be placed on the second order partial differential equations, such as Euler-Bernoulli beam equations, which arise from control of numerous mechanical systems such as flexible robot arms and large space structures. We will be focusing on new results, most of which are our own recently obtained research results.

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