

论文

STABILITY AND FEEDBACK CONTROL OF A CLASS OF SECOND-ORDER LINEAR SYSTEMS IN BANACH SPACE

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摘要 In this paper, we are concerned with the stability and control problem for a class of second-order linear systems in Banach space. First, a criterion for the exponential stability of a first-order linear system is presented. Then, the exponential stability as well as some properties of a class of second-order linear systems is proved. At last, the feedback control of this class of systems is investigated.

关键词 [Stability, feedback control, second-order](#)

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Abstract In this paper, we are concerned with the stability and control problem for a class of second-order linear systems in Banach space. First, a criterion for the exponential stability of a first-order linear system is presented. Then, the exponential stability as well as some properties of a class of second-order linear systems is proved. At last, the feedback control of this class of systems is investigated.

Key words [Stability](#) [feedback control](#) [second-order linear system](#) [unconditional base](#)

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