论文

H~∞-IDENTIFICATION OF INFINITE-DIMENSIONAL LINEAR STOCHASTIC SYSTEMS

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摘要 A method consisting of auto-regressive approximation in system identification and input normal realization truncation in model reduction is proposed for transfer function identification of infinite-dimensional linear stochastic systems. The identified low order transfer function is constructed on basis of the input-output data only, and the estimation error bounds in terms of $L\infty$ -norm are also derived.

关键词 <u>Infinite-dimensional system, stochastic</u> 分类号

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Abstract A method consisting of auto-regressive approximation in system identification and input normal realization truncation in model reduction is proposed for transfer function identification of infinite-dimensional linear stochastic systems. The identified low order transfer function is constructed on basis of the input-output data only, and the estimation error bounds in terms of $L\infty$ -norm are also derived.

Key words <u>Infinite-dimensional system</u> <u>stochastic process</u> <u>least-squares estimation</u> <u>model</u> <u>reduction</u>

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