

On the Convergence of a Time-Variant Linear Differential Equation Arising in Identification

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Abstract: This paper discusses the asymptotic stability for a well-known time-variant system by means of the direct method of Liapunov. The system exhibits a positive time-invariant Liapunov function with negative semi-definite derivative. The paper focuses on the extra conditions needed in order to guarantee asymptotic stability. The proposed criterion is compared with the results available in the literature.

Keywords:

AMS Subject Classification: