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自适应控制在飞机控制中的应用

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APPLICATION OF ADAPTIVE CONTROL TO AIRCRAFT SYSTEMS

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摘要

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摘要

1979年,在自适应控制的应用研讨会上,Stein~[1],Kreisselmeier~[2]和Rynaski~[3]等分别发表了有关自适应控制在飞机控制中应用的文章。本文将通过对这些论文的综述,对自适应飞机控制的应用现状,所面临的问题,可能的应用方向和前景,建立一个较明确的认识。

关键词:

Abstract:

This paper reviews the competition of the adaptive technique with other techniques. The inherent drawback of the adaptive technique in application to aircraft systems is considered in the light of the analysis of the features of flight control systems. The potentials and perspectives of the adaptive technique are also suggested. The development of advanced aircraft demands enhanced performances which go beyond the capacity of airdata scheduling technique. Therefore, the adaptive control schemes are expected to be applied to these flight control problems. In order to make full use of the advantages, such as saving sensor hardware, requiring less priori knowledge of aircraft: and providing higher flexibility, it is necessary to carry out robustness research of existing adaptive control schemes and to develop new more robust adaptive control schemes.

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