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论文

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终端区域理想速度剖面的生成

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ALGORITHM OF SUITABLE SPEED PROFILE IN THE TERMINAL AREA

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摘要

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摘要 本文着重探讨了飞机进入终端区域后理想速度剖面的生成问题,目的是通过执行理想剖面生成算法,达到对飞机进行精确的时间控制,消除等待时间,提高机场利用率,达到节省燃料减少延误的目的。

关键词: 四维导引 速度剖面 飞行管理系统

Abstract: In the 4D flight management system design, it is quite important to ensure an exact arrival time to a metering fix in the terminal area. In order to do so, first of all, a suitable speed profile for the aircraft dealt with has to be established. In such a speed profile, for every interval of flight path, exists a range of speed compatible with the aircraft. Once the arrival time requirement is given in the time interval of the maximum and minimum arrival time calculated by the lower bound and upper bound of the speed profile respectively, then with the aid of the proposed algorithm of iteration computation, an optimal speed profile can be easily found in a few iterations. The work done in the paper is a necessary step for the design of 4D flight management system.

Keywords: four dimensional guidance speed profile flight management system

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