

## عنوان مقاله:

RPV Longitudinal Autopilot Design

## محل انتشار:

سیزدهمین کنفرانس سالانه مهندسی مکانیک (سال: 1384)

تعداد صفحات اصل مقاله: 7

## نویسنده:

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## خلاصه مقاله:

In this paper, the design of a longitudinal autopilot for a remotely piloted vehicle is described. The structure of the autopilot is predetermined as well as the measured variables. By use of several indices of performance, and by minimizing these indices, the best autopilot gains are determined. It is used the Altitude Hold Mode and Altitude Select Mode which is caused to be introduced a special algorithm. Further, the gains of the controller as a function of mach number achieved. The climb trajectory is supposed as a function of fastest climb at every altitude to get .maximum ability of the vehicle. The results show that the autopilot is perfect to get the RPV from h1 to h2

## کلمات کلیدی:

Altitude Select Mode, Altitude Hold Mode, Inverse simulation, Performance index

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/27186>

