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旋涡与垂尾相互作用的实验研究

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EXPERIMENTAL INVESTIGATION OF THE VORTEX VERTICAL TAIL INTERACTION

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摘要

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摘要 采用七孔探针对一种边条翼双垂尾布局的飞机模型进行了空间压力场和速度场的测量。通过对于不同垂尾布局下旋涡与垂尾相互作用的流场特性的分析和比较,探讨了垂尾安装位置对飞机气动特性影响的机理

关键词: 边条翼 旋涡 垂尾

Abstract: Pressure and velocity fields of spatial cross section on an aircraft model with strake wing and double vertical tails were measured using a seven hole probe. For different layout of double vertical tails the characteristics of flow fields were compared and the interaction between vortices and vertical tails was analysed. The mechanism of the effect of vertical tails position on the aerodynamic characteristics was studied.

Keywords: strake wing vortex vertical tail

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