



航空学报 » 2001, Vol. 22 » Issue (6) :500-504 DOI:

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### 舰船飞行甲板真实流场特性试验研究

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### EXPERIMENTAL INVESTIGATION ON FLOW FIELD PROPERTIES AROUND AFT-DECK OF DESTROYER

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摘要

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**摘要** 介绍了某驱逐舰在实际航行时,舰尾飞行甲板进行流场实测的结果。给出了飞行甲板直升机起降区流场的速度矢量图,为制定直升机安全起降风限图及流场理论计算的验证提供了依据。试验结果表明,用自行开发的适于外场测量的七孔探针测试系统,可同时测量空间多点的三维流场速度和方向

**关键词:** 舰船飞行甲板 流场实测 测试技术 七孔探针

**Abstract:** A seven-hole probe velocity measurement system is developed in this paper, which consists of SHP rake, multi-channel pressure transducers, data acquisition system (16bit A/D) and software. Flow field properties of the aft-deck is studied by making three-dimensional full-scale measurements of a destroyer. The flow field vector maps are given. The results of this study will also provide an experimental datum, from which the safe operating envelope can be worked out; it may also be used to validate computer fluid dynamic predictions.

**Keywords:** ship flight deck flow field full-scale measurement seven-hole probe

Received 2000-11-13; published 2001-12-25

#### 引用本文:

顾蕴松;明晓. 舰船飞行甲板真实流场特性试验研究[J]. 航空学报, 2001, 22(6): 500-504.

GU Yun-song;MING Xiao. EXPERIMENTAL INVESTIGATION ON FLOW FIELD PROPERTIES AROUND AFT-DECK OF DESTROYER[J]. Acta Aeronautica et Astronautica Sinica, 2001, 22(6): 500-504.

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