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### 簸箕形排孔气膜冷却实验研究

朱惠人, 许都纯, 刘松龄, 王宝珑

西北工业大学706教研室, 西安, 710072

### FILM COOLING EXPERIMENTAL INVESTIGATION OF A ROW OF DUST PAN SHAPED HOLES

Zhu Hui ren, Xu Duchun, Liu Songling, Wang Baolong

Faculty 706, Northwestern Polytechnical University, Xi'an, 710072

摘要

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#### 摘要

对五孔单排簸箕形孔气膜冷却进行了实验研究。测出了孔排下游的局部换热系数及冷却效率, 并研究了喷气雷诺数及吹风比的影响, 实验参数范围是: 喷气雷诺数 $Re=10000\sim 25000$ , 吹风比 $M=0.3\sim 2.0$ , 测量分26个工况进行。

关键词:

Abstract:

Film cooling of a row of five dust pan shaped holes has been studied experimentally. Local heat transfer coefficients and film cooling effectiveness of downstream of holes row were measured and the influences of jet Reynolds number and blowing rate are described. The ranges of these parameters are: the jet Reynolds number from 10 000 to 25 000 and blowing rate from 0.3 to 2.0. Measurement was performed for 26 conditions.

Keywords: dust-pan shaped hole film cooling heat transfer

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