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航空学报 » 2001, Vol. 22 » Issue (3):222-226 DOI:

[工子]K # 2001, VOI. 22 # 133de (3) .222-220 DC

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#### 开槽砂轮缓磨时射流冲击强化换热的研究

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论文

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STUDY ON ENHANCING HEAT TRANSFER WITH JET IMPINGEMENT IN CREEP FEED DEEP GRINDING WITH SLOTTED GRINDING WHEEL

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摘要 参考文献 相关文章

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**摘要** 提出了运用磨削弧区强化换热技术开发高效磨削潜力的创新构想,并在开槽砂轮的基础上研制开发了能够实现磨削弧区沿砂轮径向定向高压水射流冲击强化换热的新型磨削液供液装置;完成了关于开槽砂轮缓磨时弧区定向高压水射流冲击强化换热效果的理论计算和实验研究,计算结果与实验结果基本吻合。

**关键词:** 缓磨 射流冲击 强化换热 开槽砂轮

Abstract: A creative conception is set up to exploit the potentialities of high efficiency grinding to great extent through enhancing heat transfer of the grinding zone, and a new grinding fluid providing device is put forward to enhance heat transfer of the grinding zone by the high pressure jet impingement. Furthermore, theoretical and experimental studies on the effect of the jet impingement are completed. The calculated results well correspond with the tested ones.

 $\textit{Keywords:} \quad \textit{cr eep feed deep g rinding } \ \textit{jet imping ement} \quad \textit{augmentation of hea t t ransfer} \quad \textit{slot ted gr inding w heel} \\$ 

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Received 2000-01-10; published 2001-06-25

# 引用本文:

傅玉灿;徐鸿钧. 开槽砂轮缓磨时射流冲击强化换热的研究[J]. 航空学报, 2001, 22(3): 222-226.

FU Yu-can; XU Hong-jun. STUDY ON ENHANCING HEAT TRANSFER WITH JET IMPINGEMENT IN CREEP FEED DEEP GRINDING WITH SLOTTED GRINDING WHEEL [J]. Acta Aeronautica et Astronautica Sinica, 2001, 22(3): 222-226.

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