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## 缓磨烧伤过程的计算机仿真研究

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### STUDY ON BURN PROCESS DURING CREEP FEED GRINDING BY COMPUTER SIMULATION TECHNIQUE

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摘要

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摘要 在关于缓磨时的磨削热,接触弧区换热过程以及工件表层非稳态温度场的深入研究的基础上,构造了一可用于计算缓磨烧伤前后工件表层温度场畸变历程的数学模型,并据此完成了关于缓磨烧伤过程的计算机仿真研究,仿真结果与实际吻合良好,它率先阐明了缓磨烧伤的热机理并且证明了缓磨烧伤是一具有明显前兆特征的典型渐变过程

关键词:

Abstract: On the basis of deepgoing researches on the grinding heat, heat transfer process of the contact zone and unstable state temperature field in the workpiece surface layer during creep feed grinding, a simulation mathematical model which can be used to calculate the time course of temperature field distorting in the workpiece surface layer has been structured, and on these grounds the computer simulation studies of workpiece burn process during creep feed grinding have been completed. The simulation result accords well with the practice of burn process during creep feed grinding, and it takes the lead in explaining the heat mechanism of burn during creep feed grinding, showing that the creep feed grinding is a typical slowly changing course which has obvious premonition characteristics.

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