论文

程序升温加速试验计算方法研究

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摘要：

介绍了一种用优选法处理倒数升温和对数升温,用优选法和辛普森积分法处理线性升温加速试验数据的新算法;讨论了常规算法的缺点;比较了3种程序升温方法的优缺点。结果表明,在本文所介绍的新算法中,没有作任何近似处理,克服了常规算法的缺点。在上述3种程序升温方法中,以倒数升温最好,线性升温次之,对数升温较差。

关键词： 倒数升温法　对数升温法　线性升温法　优选法　辛普森积分法

STUDY ON THE COMPUTATIONS OF PROGRAMMED HEATING ACCELERATED EXPERIM [ENTS

XC Zhan;BZ Ma and GK Yin

Abstract:

A new computation with optimization for reciprocal and logarithm heating,with optimization and Simpson integration for linear heating accelerated experiment was introduced;thedefects of the ordinary computations were discussed and the three kinds of programmed heating accele-rated experiment were compared.The results indicate that there has no any approximation in the newcomputation,therefore,the defects of the ordinary computations were overcome;of the three kinds ofprogrammed heating accelerated experiment,reciprocal heating is the best and logarithm heating is thelast.

Keywords: Logarithm heating　Linear heating　Optimization　Simpsonintegration　Reciprocal heating

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