

A Comparison on Cooling Curve Analysis Using Inc-Phatran and Winprobe

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RESUMEN

Cooling curve analysis was one of the principle methods for characterizing the heat transfer properties of the quenchant. Deriving the surface heat flux and heat transfer coefficient from a quenching probe test requires advanced inverse heat conduction algorithms. In this paper, the authors presented a comparison on the results of cooling curve analysis using both Inc-Phatran and WinProbe computer programs. The strengths and weaknesses of the programs were investigated through a few test cases.

TIPO DE DOCUMENTO:

Documento de conferencia (Otro)

PALABRAS CLAVE:

Algorithms. Computer programming. Cooling. Heat conduction. Heat flux. Microstructure. Temperature distribution. Thermal conductivity.

TEMAS:

[T Tecnología > TA Ingeniería de asistencia técnica \(General\). Ingeniería Civil \(General\)](#)

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