

**THE EFFECTS OF STOPPING DURATION OF WITHDRAWAL IN
DIRECTIONAL SOLIDIFICATION OF AL - 7 WT.% SI ALLOY ON
SOLIDIFICATION PARAMETERS, MICROSTRUCTURES AND
MICROHARDNESS**

*PENGARUH DURASI PENGHENTIAN PENARIKAN DALAM PROSES
SOLIDIFIKASI TERARAH DARI PADUAN AL – 7 WT.% SI TERHADAP
PARAMETER SOLIDIFIKASI, STRUKTUR MIKRO DAN KEKERASAN MIKRO*

Thesis

Mechanical Engineering Master Program

Field of Material Engineering



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