

**EFFECTS OF COLD ROLLING AND ANNEALING TIME ON
MICROSTRUCTURE, MECHANICAL PROPERTIES AND FATIGUE
CRACK PROPAGATION OF AA 5052 ALUMINUM ALLOY**

*PENGARUH Pengerolan Dingin dan Waktu Annealing Terhadap
Struktur Mikro, Sifat Mekanis, dan Perambatan Retak Fatik
dari Paduan Aluminium AA 5052*

THESIS

Mechanical Engineering S2 Study Program

Field of Materials Engineering



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**GRADUATE PROGRAM OF MECHANICAL ENGINEERING
DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING**

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