Date

:

## TITLE PAGE

## UNIVERSITI TEKNOLOGI PETRONAS

Fatigue Life Assessment of Polymer-Matrix Composites Under Variable Amplitude Loading Using Neural Networks

By

Mas Irfan Purbawanto Hidayat

A THESIS SUBMITTED TO THE POSTGRADUATE STUDIES PROGRAMME AS A REQUIREMENT FOR THE DEGREE OF MASTER OF SCIENCE MECHANICAL ENGINEERING BANDAR SERI ISKANDAR, PERAK

**MARCH**, 2009

iii