

THICKNESS EFFECT ON THE PERFORMANCE OF  
COMPOSITE TUBE

ABDULLAH OMAR BIN ABDUL AZIZ

UNIVERSITI MALAYSIA PAHANG

THICKNESS EFFECT ON THE PERFORMANCE OF  
COMPOSITE TUBE

ABDULLAH OMAR BIN ABDUL AZIZ

Report submitted in partial fulfilment of the requirements for the award of the degree of  
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**BORANG PENGESAHAN STATUS TESIS ♦**

**JUDUL:** **THICKNESS EFFECT ON THE PERFORMANCE OF  
COMPOSITE TUBE**

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Saya **ABDULLAH OMAR BIN ABDUL AZIZ (840623-11-5747)**  
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We hereby declare that we have checked this project report and in our opinion this project is satisfactory in terms of scope and quality for the award of the degree of Bachelor of Mechanical Engineering with Manufacturing Engineering

Signature

Name of Supervisor: MRS. SALWANI BINTI MOHD SALLEH

Position: Lecturer

Date: 7 November 2008

Signature

Name of Panel: MRS. NORAINI BINTI MOHD RAZALI

Position: Lecturer

Date: 7 November 2008

## **STUDENT'S DECLARATION**

I hereby declare that the work in this report is my own except for quotations and summaries which have been duly acknowledged. The report has not been accepted for any degree and is not concurrently submitted for award of other degree.

Signature

Name: ABDULLAH OMAR BIN ABDUL AZIZ

ID Number: ME06068

Date: 7 November 2008

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**LIST OF SYMBOLS**

|       |                   |
|-------|-------------------|
| $P$   | Applied Load      |
| $L$   | Span Length       |
| $b$   | Width             |
| $t$   | Thickness         |
| $E$   | Elastic Modulus   |
| $G$   | Shear Modulus     |
| $k_s$ | Shear Coefficient |



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**LIST OF ABBREVIATIONS**

|     |                         |
|-----|-------------------------|
| FEA | Finite Element Analysis |
| FYP | Final Year Project      |
| VFM | Virtual Fields Method   |