



STRUCTURE ANALYSIS OF SEMI SUBMARINE BULKHEAD

MUHAMMAD IKHWAN NAIM BIN ZAKARIA

(2003329157)

**A thesis submitted in partial fulfillment of the requirement for the award of
Bachelor Engineering (Hons.) Mechanical**

**Faculty of Mechanical Engineering
University Technology Mara (UiTM)**

NOVEMBER 2006

“I declare that this thesis is the result of my own work except this ideas and summaries which I has clarified their sources. The thesis has not been accepted for any degree and is not concurrently submitted in candidature of any degree.”

Signed: 

Date: 07/12/2006

Muhammad Ikhwan Naim bin Zakaria

UiTM No: 2003329157

ACKNOWLEDGEMENT

Firstly, I would like to be very thankful to the Almighty for His benevolence and generosity in giving me strength, healthy and courage to complete my thesis successfully in order to fulfill the requirement for Bachelor of Engineering (Hons.) in Mechanical Engineering, Universiti Teknologi Mara.

I would like to express my sincere gratitude and appreciations to my project advisor Mr. Shaharudin bin Ahmad for kindness, advice, guidance, and sharing experiences in the research of structural analysis of submarine bulkhead.

Finally, I would like to extend my sincere to our heartiest thanks to each individual who has given assistance in terms of materials, efforts and ideals, indirectly or directly. I am also grateful to my family for their support and understanding during the preparation of this project.

ABSTRACT

This project required the studies on analysis of submarine bulkhead using the finite element method. A simple submarine bulkhead modeling was built in finite element method. The stress in the submarine bulkhead will be determined by formulation. From the formulation, the stress at the keel and at the top of the submarine bulkhead will be calculated and compared with the result in finite element method. The prediction of stress in submarine bulkhead structure will be obtained by ANSYS, finite element software.

TABLE OF CONTENTS

CONTENTS	PAGE
PAGE TITLE	i
ACKNOWLEDGEMENT	ii
ABSTRACT	iii
TABLE OF CONTENTS	v
LIST OF TABLES	viii
LIST OF FIGURES	ix
LIST OF ABBREVIATIONS	xi

CHAPTER 1

INTRODUCTION

1.0	Introduction	1
1.1	Objective	2
1.2	Significance of the Project	2
1.3	Scope of the project	3