

# Experimental Determination of Composite Stacking Sequence Using Four Point Bend Test

ME EN 6960

Nik Benko, John Callaway, Nick Dorsett, Martin Raming

February 22, 2018

## Abstract

A four point bend test was used to determine the layup of a composite laminated plate

## 1 Introduction

Citation [1]

## 2 Methods

We took the integral from  $x = 1$  to  $x = 2$

$$\frac{1}{x} = \int \log(x) \quad (1)$$

### 2.1 Laminated Plate Theory

### 2.2 Experimental Techniques

Four point

### 2.3 Procedure

### 2.4 Error and Uncertainties

Parameter	$E_1$	$E_2$	$G_{12}$	$\nu_{12}$	$\nu_{21}$
Value	114 GPa	8.3 GPa	3.93 GPa	0.33	0.02

Table 1: T800-3900 Material Properties

[plot1.png]

Figure 1

## 3 Results

## 4 Discussion

## 5 Conclusion

## 6 Figures

## 7 Tables

## 8 Appendix

### 8.1 code

code

### 8.2 equations

## References

[1] J. W. D. Arun Shukla, *Experimental Solid Mechanics*.