

TABLE OF CONTENTS

CHAPTER	TITLE	PAGE
	DECLARATION	
	DEDICATION	
	ACKNOWLEDGMENT	
	ABSTACT	
	ABSTRAK	
	TABLE OF CONTENTS	
	LIST OF TABLES	
	LIST OF FIGURES	
	LIST OF SYMBOLS	
1	INTODUCTION	
	1.1 Introduction	
	1.2 Research Background	
	1.3 Problem Statement	
	1.4 Research Objectives	
	1.5 Research Scope	
	1.6 Thesis Outline	

2 THEORIES

- 2.1 Introduction
- 2.2 The Four Level System
 - 2.2.1 Pulse Pumping
- 2.3 Nd:YAG Laser System
 - 2.3.1 Q-switching
 - 2.3.2 Gain Coefficient
- 2.4 Findlay and Clay Method

3 RESEARCH METHODOLOGIES

- 3.1 Introduction
- 3.2 Pumping Power
- 3.3 Cooling System
- 3.4 Active Medium
- 3.5 Laser Mirror
- 3.6 Resonator
- 3.7 The Laser System
- 3.8 Findlay and Clay Analysis

4 RESULT AND DISCUSSION

- 4.1 Result
- 4.2 Discussion

5 CONCLUSION

- 5.1 Conclusion
- 5.2 Problems
- 5.3 Recommendations

REFERENCES

APPENDICES