

TRANSMISSION LINE VOLTAGE STABILITY DURING MAXIMUM LOAD

**Project report presented in the partial fulfillment for the award of the
Bachelor of Electrical Engineering (Hons)**



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ABSTRACT

This paper presents the transmission line compensation to improve the system stability in power system. In order to achieve the objective, three methods of line compensation were implemented, series capacitor and shunt capacitor to improve the voltage stability. The location of weakest transmission line was identified using Q-V curve analysis. The proposed method was applied to a 30 busbar IEEE systems to show its feasibility and capability. All simulation was done using the MATLAB version 7.5 programming.

TABLE OF CONTENTS

CONTENTS	PAGE
Declaration	i
Acknowledgements	ii
Abstract	iii
Table of Contents	iv
List of Figures	vii
List of Tables	viii

CHAPTER	PAGE
1 INTRODUCTION	
1.0 Background	1
1.1 Problem statement	5
1.2 Project objective	6
1.3 Scope of work	7
1.4 Thesis organizational	9
2 POWER FLOW ANALYSIS	
2.0 Introduction	10
2.1 Basic Technique for Power-Flow	11
2.2 Newton-Raphson Method	12
2.2.1 Application For Newton Raphson Method To Load Flow Equations In Polar Coordinates	14
2.2.2 Method 1: First Type Of Formulation Of Jacobian Matrix	15
2.3 Classification of buses	15
2.4 Load flow using matlab program	17
2.4.1 Lfybus	17
2.4.2 Busout	17

	2.4.3 Lineflow	17
	2.4.4 Lfnewton	18
	2.4.5 Data Preparation	18
	2.4.6 Bus Data File – BusData	18
	2.4.7 Line Data File – LineData	20
3	METHODOLOGY	
	3.0 Introduction	21
	3.1 V-Q curve analysis	22
	3.2 P-V curve analysis	23
	3.3 30-Bus IEEE System	24
	3.4 Methodology	25
4	RESULTS AND DISCUSSION	
	4.0 Introduction	27
	4.1 Identify the weakest bus	27
	4.2 Reactive power injected at the weakest bus	28
	4.2.1 Reactive power injected at bus 1-3	28
	4.2.2 Reactive power injected at line 4-2	29
	4.3 Shunt and series capacitor compensation	31
	4.3.1 Shunt and series capacitor compensation at line 1-3	31
	4.3.2 Shunt and series capacitor compensation at line 4-2	32
	4.3.3 Shunt and series capacitor compensation at line 7-6	33