

CONTENTS

	<i>Pages</i>
Foreword	iii
Chapter 1 : Introduction and Aim of the Project	1
Chapter 2 : Static Voltage Stability Prediction of Integrated AC and AC-DC Systems	4
Chapter 3 : Effect of Generation Rescheduling on Voltage Stability Margin	12
Chapter 4 : Determination of Voltage Control Area Based on Entropy Concept	20
Chapter 5 : Voltage Stability Margin Enhancement through Rescheduling of Generator and Facts Devices Output	28
Chapter 6 : Bifurcation and Chaos - Basic Definitions	36
Chapter 7 : Studies on Local Bifurcations	47
Chapter 8 : Estimation of Closest Static Voltage Instability Point Using ANN Based Analog Simulation	56
Chapter 9 : Estimation of Closest HOPF Bifurcation Point	61
Chapter 10 : Studies on Global Bifurcation	65
Chapter 11 : Elimination of Dynamic Bifurcations and Chaos	69
Chapter 12 : Summary of Important Findings	75
Appendices	
Appendix A	78
Appendix B	80
Appendix C	82
Appendix D	84
Appendix E	87
Appendix F	90
Appendix G	97
Bibliography	110