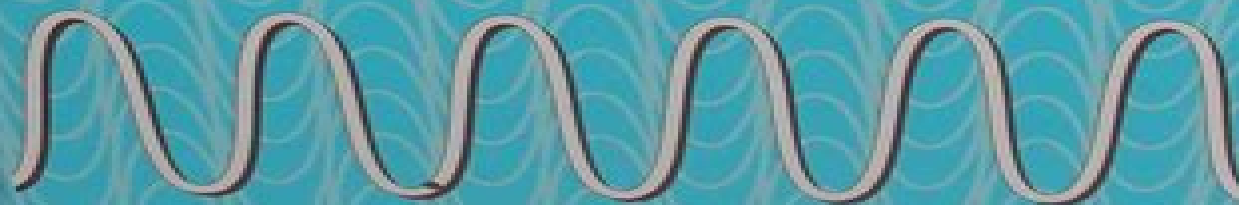


SUBSYNCHRONOUS RESONANCE IN POWER SYSTEMS

**P. M. Anderson
B. L. Agrawal
J. E. Van Ness**



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Subsynchronous Resonance In Power Systems

Atia Adrees



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Subsynchronous Resonance in Power Systems Paul M. Anderson, Basant L. Agrawal, J. E. Van Ness, 1999-02-02
Mathematical calculations for subsynchronous system modeling Subsynchronous Resonance in Power Systems provides in depth guidance toward the parameters modeling and analysis of this complex subclass of power systems Emphasizing field testing to determine the data required this book facilitates thorough and efficient oscillation and damping modeling using eigenvalues of a system's linear model Expert discussion provides step by step instruction for generator network and turbine generator shaft models followed by detailed tutorials for model testing and analysis based on IEEE CORPALS and SSR eigenvalue analysis Comprehensive in scope and practical in focus this book is an invaluable resource for anyone working with frequencies below 60 Hz

Analysis of Subsynchronous Resonance in Power Systems K.R. Padiyar, 2012-12-06

2 Analysis of induction generator effect frequency scanning method 83 4 3 Analysis of torsional interaction TI 87 4 4 State equations and eigenvalue analysis 96 4 5 An algorithm for computing torsional modes 108 4 6 Countermeasures for SSR III 4 7 Torsional oscillations in parallel connected turbine generators 120 121 5 INTERACTIONS WITH POWER SYSTEM STABILIZER 5 1 Introduction 121 5 2 Basic concept in the application of PSS 122 5 3 Design of PSS 126 5 4 Torsional interaction with PSS 130 5 5 A case study 132 6 INTERACTIONS WITH HVDC CONVERTER CONTROL 137 6 1 Introduction 137 6 2 HVDC converters and control 138 6 3 Modelling of HVDC system for study of torsional interactions 147 6 4 Analysis of torsional interactions A simplified approach 153 6 5 A case study 156 6 6 A simplified damping torque analysis 161 6 7 Control of torsional interaction 167 7 INTERACTIONS WITH SHUNT COMPENSATORS 169 7 1 Introduction 169 7 2 Static Var Compensator 171 7 3 Torsional Interactions with SVC 186 7 4 Static Condenser STATCON 189 7 5 Torsional interactions with STATCON 196 7 6 A simplified analysis of torsional interaction with voltage controller 200 8 INTERACTIONS WITH SERIES COMPENSATORS 205 8 1 Introduction 205 8 2 Thyristor Controlled Series Compensator 206 8 3 Modelling of TCSC for SSR studies 216 8 4 Mitigation of SSR with TCSC 223 8 5 Static Synchronous Series Compensator SSSC 229 8

Analysis of Subsynchronous Resonance in Power Systems Wenchun Zhu, 1994 Three aspects of Subsynchronous Resonance SSR related problems in power systems are addressed in this dissertation which aims at contributing to a better understanding of these problems Subsynchronous Resonance SSR problems in series compensated steam turbine power systems co exist with the beneficial effects provided by the series capacitors Since the early 1930s numerous researchers have addressed issues relating to these problems The development of a generalized frequency scan method for analyzing SSR in a Single Machine Infinite Bus SMIB power system equipped with fixed series capacitor compensation is presented This method overcomes shortcomings present in the traditional frequency scan technique which is widely used in power system analysis It has been noticed that there are nonlinear dynamic phenomena in power systems which can not be explained by linear system theory This includes limited oscillations in a power system when it experiences SSR at a frequency

close to one of the system modes The phenomenon can be explained by Hopf bifurcations This dissertation presents an analysis for a high dimensional model of a SMIB power system equipped with fixed series capacitor compensation The results obtained can lead to a more precise understanding of this phenomenon than those available to date which use perturbation methods and highly simplified second order power system models Compared with fixed series capacitor compensation in power systems the newly developed Thyristor Controlled Series Compensation TCSC scheme has some well known advantages with regard to flexible power system control It has been noted that vernier mode TCSC operation can provide for SSR mitigation In this thesis such beneficial effect is demonstrated and analyzed for a simplified North Western American Power System NWAPS model based on EMTP simulations Issues relating to modelling and simulation of power system and TCSC are addressed

Subsynchronous Resonance in Power Systems Robert Allen Blessin,1976

Risk Based Assessment of Subsynchronous Resonance in AC/DC Systems Atia Adrees,2016-10-04 This relevant and timely thesis presents the pioneering use of risk based assessment tools to analyse the interaction between electrical and mechanical systems in mixed AC DC power networks at subsynchronous frequencies It also discusses assessing the effect of uncertainties in the mechanical parameters of a turbine generator on SSR in a meshed network with both symmetrical and asymmetrical compensation systems The research presented has resulted in 12 publications including three top international journal papers IEEE Transactions on Power Systems and nine international conference publications including two award winning papers

Subsynchronous Resonance in Power Systems Kim Touy Khu,1977

A Study of Subsynchronous Resonance in Power Systems Mehdi Toufan,1995

Power System Stability and Control Leonard L. Grigsby,2017-12-19

With contributions from worldwide leaders in the field Power System Stability and Control Third Edition part of the five volume set The Electric Power Engineering Handbook updates coverage of recent developments and rapid technological growth in essential aspects of power systems Edited by L L Grigsby a respected and accomplished authority in power engineering and section editors Miroslav Begovic Prabha Kundur and Bruce Wollenberg this reference presents substantially new and revised content Topics covered include Power System Protection Power System Dynamics and Stability Power System Operation and Control This book provides a simplified overview of advances in international standards practices and technologies such as small signal stability and power system oscillations power system stability controls and dynamic modeling of power systems This resource will help readers achieve safe economical high quality power delivery in a dynamic and demanding environment With five new and 10 fully revised chapters the book supplies a high level of detail and more importantly a tutorial style of writing and use of photographs and graphics to help the reader understand the material New Chapters Cover Systems Aspects of Large Blackouts Wide Area Monitoring and Situational Awareness Assessment of Power System Stability and Dynamic Security Performance Wind Power Integration in Power Systems FACTS Devices A volume in the Electric Power Engineering Handbook Third Edition Other volumes in the set K12642 Electric Power Generation

Transmission and Distribution Third Edition ISBN 9781439856284 K12648 Power Systems Third Edition ISBN 9781439856338 K12650 Electric Power Substations Engineering Third Edition 9781439856383 K12643 Electric Power Transformer Engineering Third Edition 9781439856291 Power System Dynamics Ramanujam, R.,2010 This comprehensive text offers a detailed treatment of modelling of components and sub systems for studying the transient and dynamic stability of large scale power systems Beginning with an overview of basic concepts of stability of simple systems the book is devoted to in depth coverage of modelling of synchronous machine and its excitation systems and speed governing controllers Apart from covering the modelling aspects methods of interfacing component models for the analysis of small signal stability of power systems are presented in an easy to understand manner The book also offers a study of simulation of transient stability of power systems as well as electromagnetic transients involving synchronous machines Practical data pertaining to power systems numerical examples and derivations are interspersed throughout the text to give students practice in applying key concepts This text serves as a well knit introduction to Power System Dynamics and is suitable for a one semester course for the senior level undergraduate students of electrical engineering and postgraduate students specializing in Power Systems Contents contents Preface 1 ONCE OVER LIGHTLY 2 POWER SYSTEM STABILITY ELEMENTARY ANALYSIS 3 SYNCHRONOUS MACHINE MODELLING FOR POWER SYSTEM DYNAMICS 4 MODELLING OF OTHER COMPONENTS FOR DYNAMIC ANALYSIS 5 OVERVIEW OF NUMERICAL METHODS 6 SMALL SIGNAL STABILITY ANALYSIS OF POWER SYSTEMS 7 TRANSIENT STABILITY ANALYSIS OF POWER SYSTEMS 8 SUBSYNCHRONOUS AND TORSIONAL OSCILLATIONS 9 ENHANCEMENT AND COUNTERMEASURES Index **HVDC Grids** Dirk Van Hertem,Oriol Gomis-Bellmunt,Jun Liang,2016-02-09 This book discusses HVDC grids based on multi terminal voltage source converters VSC which is suitable for the connection of offshore wind farms and a possible solution for a continent wide overlay grid HVDC Grids For Offshore and Supergrid of the Future begins by introducing and analyzing the motivations and energy policy drives for developing offshore grids and the European Supergrid HVDC transmission technology and offshore equipment are described in the second part of the book The third part of the book discusses how HVDC grids can be developed and integrated in the existing power system The fourth part of the book focuses on HVDC grid integration in studies for different time domains of electric power systems The book concludes by discussing developments of advanced control methods and control devices for enabling DC grids Presents the technology of the future offshore and HVDC grid Explains how offshore and HVDC grids can be integrated in the existing power system Provides the required models to analyse the different time domains of power system studies from steady state to electromagnetic transients This book is intended for power system engineers and academics with an interest in HVDC or power systems and policy makers The book also provides a solid background for researchers working with VSC HVDC technologies power electronic devices offshore wind farm integration and DC grid protection

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