

POWER SYSTEM STABILITY AND CONTROL

**4 Days Workshop
8th-11th June 2015
Grand Hyatt, Bali
Indonesia**

Course Delivery

Course schedule

08:30	Registration and coffee
09:00	Course commences
10:30	Morning refreshments and networking break
11:00	Course resumes
12:45	Luncheon
14:00	Course resumes
15:15	Afternoon refreshments and networking break
15:45	Course resumes
17:30	Course Ends

Course Outline

Day 1

Session One

Introduction to Power System Stability

- Definition and classification of power system stability
- Brief description of each category of system stability
- Conceptual relationship between power system stability, security and reliability
- Traditional approach power system security assessment
- Challenges to secure operation of present-day power systems

Session Two

Review of Equipment Characteristics and Modelling

- **Synchronous machines:** theory and modelling, machine parameters, saturation modelling, synchronous machine representation in stability studies, reactive capability limits.
- **Excitation systems:** elements of an excitation system, types of excitation systems, control and protective functions, modelling.
- **Prime movers and governing systems:** hydraulic turbines and governing systems, steam turbines and governing systems, gas turbines and combined-cycle units.
- **Generating unit testing and model validation:** test procedures, current industry practices.
- **AC Transmission:** performance equations and parameters, surge impedance loading, voltage-power characteristics, reactive power requirements, loadability characteristics, factors influencing transfer of active and reactive power.
- **Power system loads:** basic modelling concepts, static and dynamic models, acquisition of load model parameters.

Session Three

Control of Active Power and Frequency

- Fundamentals of frequency control
- Composite regulating characteristics of power systems
- Automatic generation control
- Under-frequency load shedding



Power System Stability And Control Lab Manual

S Marginson



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Proceedings of the Second International Scientific Conference “Intelligent Information Technologies for Industry” (IITI’17) Ajith Abraham, Sergey Kovalev, Valery Tarassov, Vaclav Snasel, Margreta Vasileva, Andrey Sukhanov, 2017-09-30 This volume of Advances in Intelligent Systems and Computing highlights key scientific achievements and innovations in all areas of automation informatization computer science and artificial intelligence It gathers papers presented at the IITI 2017 the Second International Conference on Intelligent Information Technologies for Industry which was held in Varna Bulgaria on September 14 16 2017 The conference was jointly co organized by Technical University of Varna Bulgaria Technical University of Sofia Bulgaria VSB Technical University of Ostrava Czech Republic and Rostov State Transport University Russia The IITI 2017 brought together international researchers and industrial practitioners interested in the development and implementation of modern technologies for automation informatization computer science artificial intelligence transport and power electrical engineering In addition to advancing both fundamental research and innovative applications the conference is intended to establish a new dissemination platform and an international network of researchers in these fields

Control of Power Plants and Power Systems 1992 International Federation of Automatic Control, 1992 The aim of this symposium is to bring together control engineers and scientists in power plant and power system design Problems concerning the modelling and the control of single power plant units as well as problems concerning the long mid and short term dynamics and the control of power systems in detail were treated

Intelligent Automatic Generation Control Hassan Bevrani, Takashi Hiyama, 2017-12-19 Automatic generation control AGC is one of the most important control problems in the design and operation of interconnected power systems Its significance continues to grow as a result of several factors the changing structure and increasing size complexity and functionality of power systems the rapid emergence and uncertainty of renewable energy sources developments in power generation consumption technologies and environmental constraints Delving into the fundamentals of power system AGC Intelligent Automatic Generation Control explores ways to make the infrastructures of tomorrow smarter and more flexible These frameworks must be able to handle complex multi objective regulation optimization problems and they must be highly diversified in terms of policies control strategies and wide distribution in demand and supply sources all via an intelligent scheme The core of such intelligent systems should be based on efficient adaptable algorithms advanced information technology and fast communication devices to ensure that the AGC systems can maintain generation load balance following serious disturbances This book addresses several new schemes using intelligent control techniques for simultaneous minimization of system frequency deviation and tie line power changes which is required for successful operation of interconnected power systems It also concentrates on physical and engineering aspects and examines several developed control strategies using real time simulations This reference will prove useful for engineers and operators in power system planning and operation as well as academic researchers and students in field of

electrical engineering **Modeling techniques and control strategies for inverter dominated microgrids** Gkountaras, Aris, 2017-02-15 The character of modern power systems is changing rapidly and inverters are taking over a considerable part of the energy generation A future purely inverter based grid could be a viable solution if its technical feasibility can be first validated The focus of this work lies on inverter dominated microgrids which are also mentioned as hybrid in several instances throughout the thesis Hybrid as far as the energy input of each generator is concerned Conventional fossil fuel based generators are connected in parallel to renewable energy sources as well as battery systems The main contributions of this work comprise of The analysis of detailed models and control structures of grid inverters synchronous generators and battery packs and the utilization of these models to formulate control strategies for distributed generators The developed strategies accomplish objectives in a wide time scale from maintaining stability during faults and synchronization transients as well as optimizing load flow through communication free distributed control Die Struktur der modernen Energieversorgung hat sich in den letzten Jahrzehnten massiv geändert Dezentrale Generatoren die auf Wechselrichtern basieren übernehmen einen großen Teil der Energieerzeugung Ein ausschließlich wechselrichterbasiertes Netzwerk wäre ein realistischer Ansatz wenn seine technische Machbarkeit verifiziert werden könnte Die wichtigsten Beiträge dieser Arbeit sind Die Analyse von Modellen und Regelstrukturen von Netzwechselrichtern Synchrongeneratoren und Batterieanlagen Die entwickelten Modelle werden verwendet um Regelstrategien für dezentrale Generatoren in Mittelspannungsinselnnetzen zu formulieren Die erste Strategie ist eine Synchronisationsmethode für netzbildende Wechselrichter Zweitens wird die Leistungsaufteilung in Mittelspannungsinselnnetzen mittels Droop Regelung analysiert Weiterhin erfolgt die Untersuchung der transienten Lastaufteilung zwischen netzbildenden Einheiten mit unterschiedlichen Zeitkonstanten Beim Betrieb mehrerer paralleler Wechselrichter wird der Einfluss der Netzimpedanz auf die transiente Lastaufteilung analysiert Die dritte entworfene Regelstrategie umfasst die Integration der Sekundärregelung in die Primärregelung Der Ladezustand von Batterien wird mit der Lastaufteilung gekoppelt um die Autonomie des Netzes zu stärken Abschließend wird eine Kurzschlussstrategie für netzbildende und netzspeisende Wechselrichter entwickelt Ziel der Strategie ist die Maximierung des Kurzschlussstromes Als zusätzliche Randbedingung soll keine Kommunikation zwischen Generatoren stattfinden

Intelligent Systems, Business, and Innovation Research Rim El Khoury, Nohade Nasrallah, 2024-01-25 Intelligent systems research is a multidisciplinary field that focuses on the development of systems that can perceive reason and act autonomously This can include areas such as machine learning artificial intelligence natural language processing and robotics The goal of intelligent systems research is to develop systems that can understand learn from and adapt to their environment to perform tasks that would typically require human intelligence Business and innovation research is an interdisciplinary field that examines how organizations can create develop and implement new ideas products and services This can include areas such as organizational behaviour strategic management and marketing The goal of business and

innovation research is to understand how organizations can foster an environment that encourages creativity and innovation and how they can develop and implement new ideas in a way that leads to success Intelligent Systems Business and Innovation Research is a research area that brings together these two fields to study the use of intelligent systems and technologies in the business context to drive innovation improve operational efficiency and effectiveness of the organization The book aims to understand how intelligent systems can be used in business applications how to design and implement them how to manage the associated challenges and how to leverage them to foster innovation create new business models and gain competitive advantage It offers guidance on how to navigate potential conflicts and challenges that may arise during multidisciplinary research in areas such as Industry 4 0 Internet of Things modern machine learning software agent applications and data science The book focuses on the various fields in which intelligent systems play a critical role in enabling the development of advanced technologies that can perform tasks that would typically require human intelligence For example in smart control systems intelligent algorithms can be used to optimize the performance of machines and devices while in cyber security they can be used to protect networks and data from cyber attacks In bioinformatics intelligent systems can be used to analyse large amounts of biological data while in virtual reality and robotics they can be used to create realistic and responsive simulations and automatons Additionally the book also highlights the rapidly advancing theoretical foundations of fuzzy sets mathematical logic and non classical logic These are important theoretical frameworks for the development of intelligent systems as they provide the foundation for the representation and manipulation of uncertainty complexity and imprecision These theoretical foundations are essential in the development of intelligent systems that can make decisions and perform tasks in uncertain complex and dynamic environments

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