MONASH UNIVERSITY DEPARTMENT OF ELECTRICAL AND COMPUTER SYSTEMS ENGINEERING

ECE4053 ELECTRICAL ENERGY – GENERATION AND SUPPLY

SYSTEM STABILITY -EXPERIMENT 2

AIM

- (a) To carry out stability studies to investigate the effect of excitation controls on system dynamics.
- (b) To obtain experience using a commercial power systems simulation tool.

REFERENCES

Power System, Analysis and Design, Glover and Sarma, Brooks Cole

Electrical Power Systems, Guile and Paterson, Pergamon Press.

Electric Power Systems, Weedy, Wiley.

Power System Stability and Control, Kundur, McGraw Hill (cbook).

EQUIPMENT

To simulate the power system in this task, the PSS/E software tool will be used. PSS/E is a package of power system analysis programs, used by the major transmission authorities in Australia. In this particular lab, you will use the System Dynamics part of that package.

IMPORTANT

Students enrolled in ECE5153 are required to complete Section 2.4. For ECE5153 students the lab will be marked out of 12 marks.

For students enrolled in ECE4053, this lab will be marked out of 10 marks. Thus, section 2.4 is optional for ECE4053 students. We will award up to 2 bonus marks for ECE4053 students who attempt section 2.4. These bonus marks will NOT carry over to other assessment tasks for this unit.

AIM OF EXPERIMENT

Stability experiment I aimed to indicate the effect of network configuration on the stability of a power station with synchronous generators. The typical system parameters demonstrated in that laboratory exercise were fault clearance time, number of transmission lines, series capacitors in a line and a STATCOM connected to a busbar. Other system parameters include sectionalising of transmission lines.

Power System Stability Lab Manual

Siddhartha Kumar Khaitan, Anshul Gupta

Power System Stability Lab Manual:

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 Power System Modelling and Scripting Federico Milano, 2010-09-08 Power system modelling and scripting is a quite general and ambitious title Of course to embrace all existing aspects of power system modelling would lead to an encyclopedia and would be likely an impossible task Thus the book focuses on a subset of power system models based on the following assumptions i devices are modelled as a set of nonlinear differential algebraic equations ii all alternate current devices are operating in three phase balanced

fundamental frequency and iii the time frame of the dynamics of interest ranges from tenths to tens of seconds These assumptions basically restrict the analysis to transient stability phenomena and generator controls The modelling step is not self sufficient Mathematical models have to be translated into computer programming code in order to be analyzed understood and experienced It is an object of the book to provide a general framework for a power system analysis software tool and hints for filling up this framework with versatile programming code This book is for all students and researchers that are looking for a quick reference on power system models or need some guidelines for starting the challenging adventure of Proceedings of the Second International Scientific Conference "Intelligent Information writing their own code <u>Technologies for Industry" (IITI'17)</u> 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 Scientific and Technical Aerospace Reports ,1995 Mathematics as a Laboratory Tool John Milton, Toru Ohira, 2014-09-18 This introductory textbook is based on the premise that the foundation of good science is good data The educational challenge addressed by this introductory textbook is how to present a sampling of the wide range of mathematical tools available for laboratory research to well motivated students with a mathematical background limited to an introductory course in calculus Energy ,1983 High Performance Computing in Power and Energy Systems Siddhartha Kumar Khaitan, Anshul Gupta, 2012-09-13 The twin challenge of meeting global energy demands in the face of growing economies and populations and restricting greenhouse gas emissions is one of the most daunting ones that humanity has ever faced Smart electrical generation and distribution infrastructure will play a crucial role in meeting these challenges We would need to develop capabilities to handle large volumes of data generated by the power system components like PMUs DFRs and other data acquisition devices as well as by the capacity to process these data at high resolution via multi scale and multi period simulations cascading and security analysis interaction between hybrid systems electric transport gas oil coal etc and so on to get meaningful information in real time to ensure a secure reliable and stable power system grid Advanced research on development and implementation of market ready leading edge high speed enabling technologies and

algorithms for solving real time dynamic resource critical problems will be required for dynamic security analysis targeted towards successful implementation of Smart Grid initiatives This books aims to bring together some of the latest research developments as well as thoughts on the future research directions of the high performance computing applications in electric power systems planning operations security markets and grid integration of alternate sources of energy etc

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1973 An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994 Energy Research Abstracts ,1990 **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 Nuclear Science Abstracts ,1974 Catalog of Copyright Entries, Third Series Library of Congress. Copyright Office, 1971 The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim the name of the copyright claimant as given in the application for registration the copyright date the copyright registration number etc Solar Energy Update, 1979-10 Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1971 **Energy Abstracts for Policy Analysis** ,1987 Subject Guide to Books in Print, 2001 Technical Publications Announcements with Indexes United States. National Aeronautics and Space Administration, 1962

Fossil Energy Update ,1985

Who's who in Engineering John W. Leonard, Winfield Scott Downs, M. M. Lewis, 1964

Power System Stability Lab Manual: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Power System Stability Lab Manual: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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