Capítulo 3. DIgSILENT PowerFactory

3.1 Introducción

En este capítulo se hará una breve descripción del programa seguida de un pequeño manual de usuario en el que se hará referencia a nociones básicas de utilización de dicho programa y se profundizará en las herramientas usadas para la obtención de resultados de este proyecto. Es importante resaltar que todo el trabajo se irá almacenando en un directorio que deberá ser creado por el administrador una vez instalado el programa que en el caso de este proyecto se llama FAG.

3.2 Descripción general del programa

El programa de cálculo DIgSILENT es una herramienta computerizada avanzada de diseño asistido en ingeniería para el análisis de sistemas eléctricos de potencia comerciales, industriales y a gran escala. Ha sido diseñado como un avanzado, integrado e interactivo paquete computacional dedicado a los sistemas de potencia para lograr los objetivos principales de planificación y operación.

La naturaleza actual de los sistemas eléctricos de potencia es la de ser una compleja estructura formada por miles de elementos generadores, transformadores, líneas, cargas, etc., cada uno de los cuales tiene asociado elementos de medición, control, etc. de una naturaleza compleja. A futuro, la complejidad y las dimensiones de los problemas asociados a los sistemas de potencia aumentarán. En tal sentido, los análisis de estos sistemas requieren de una poderosa herramienta como DIgSILENT PowerFactory para acometer en forma adecuada los estudios que la planificación y operación de sistemas de potencia requiere.

3.3 Manual del usuario

3.3.1 Disposición de los datos / Estructura.

En PowerFactory hay dos conjuntos distintos de información que pueden ser definidos [6]

Digsilent Powerfactory Manual

Adel Mellit,Mohamed Benghanem

Digsilent Powerfactory Manual:

A Practical Guide for Advanced Methods in Solar Photovoltaic Systems Adel Mellit,Mohamed Benghanem,2020-05-27 The present book focuses on recent advances methods and applications in photovoltaic PV systems The book is divided into two parts the first part deals with some theoretical simulation and experiments on solar cells including efficiency improvement new materials and behavior performances While the second part of the book devoted mainly on the application of advanced methods in PV systems including advanced control FPGA implementation output power forecasting based artificial intelligence technique AI high PV penetration reconfigurable PV architectures and fault detection and diagnosis based AI The authors of the book trying to show to readers more details about some theoretical methods and applications in solar cells and PV systems eg advanced algorithms for control optimization power forecasting monitoring and fault diagnosis methods The applications are mainly carried out in different laboratories and location around the world as projects Algeria KSA Turkey Morocco Italy and France The book will be addressed to scientists academics researchers and PhD students working in this topic The book will help readers to understand some applications including control forecasting monitoring fault diagnosis of photovoltaic plants as well as in solar cells such as behavior performances and efficiency improvement It could be also be used as a reference and help industry sectors interested by prototype development

Distributed Energy Systems Ashutosh K. Giri,Sabha Raj Arya,Dmitri Vinnikov,2022-12-30 This book provides the insight of various topology and control algorithms used for power control in distributed energy power conversion systems such as solar wind and other power sources It covers traditional and advanced control algorithms of power filtering including modelling and simulations and hybrid power generation systems The adaptive control model predictive control fuzzy based controllers Artificial Intelligence based control algorithm and optimization techniques application for estimating the error regulator gains are discussed Features of this book include the following Covers the schemes for power quality enhancement and voltage and frequency control Provides complete mathematical modelling and simulation results of the various configurations of the renewable energy based distribution systems Includes design control and experimental results Discusses mathematical modelling of classical and adaptive control techniques Explores recent application of control algorithm and power conversion This book is aimed at researchers professionals and graduate students in power electronics distributed power generation systems control engineering Artificial Intelligent based control algorithms optimization techniques and renewable energy systems **Dynamic Vulnerability Assessment and Intelligent Control** José Luis Rueda-Torres,Francisco González-Longatt,2018-03-19 Identifying assessing and mitigating electric power grid vulnerabilities is a growing focus in short term operational planning of power systems Through illustrated application this important guide surveys state of the art methodologies for the assessment and enhancement of power system security in short term operational planning and real time operation The methodologies employ advanced methods from probabilistic theory data

mining artificial intelligence and optimization to provide knowledge based support for monitoring control preventive and corrective and decision making tasks Key features Introduces behavioural recognition in wide area monitoring and security constrained optimal power flow for intelligent control and protection and optimal grid management Provides in depth understanding of risk based reliability and security assessment dynamic vulnerability assessment methods supported by the underpinning mathematics Develops expertise in mitigation techniques using intelligent protection and control controlled islanding model predictive control multi agent and distributed control systems Illustrates implementation in smart grid and self healing applications with examples and real world experience from the WAMPAC Wide Area Monitoring Protection and Control scheme Dynamic Vulnerability Assessment and Intelligent Control for Power Systems is a valuable reference for postgraduate students and researchers in power system stability as well as practicing engineers working in power system dynamics control and network operation and planning   **IEEE Africon** ,2004

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