

## 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 secciones internas 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 IFUG.

### 3.2 Descripción general del programa

El programa de título DigSILENT es una herramienta computarizada destinada de diseñar, estudiar, 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 primordiales 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, cables, 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 aumentará. 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 Organización de los datos / Estructura.

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

# Digsilent Powerfactory User Manual

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## **Digsilent Powerfactory User Manual:**

### **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 Intelligent Human Systems Integration (IHSI 2024): Integrating People and Intelligent Systems Tareq

Ahram, Waldemar Karwowski, Dario Russo, Giuseppe Di Bucchianico, 2024-02-22 Intelligent Human Systems Integration 2024 Proceedings of the 7th International Conference on Intelligent Human Systems Integration Integrating People and Intelligent Systems Università degli Studi di Palermo Palermo Italy February 22-24 2024 **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

## **Decentralized Frameworks for Future Power Systems** Mohsen Parsa Moghaddam, Reza Zamani, Hassan Haes

Alhelou, Pierluigi Siano, 2022-05-12 Decentralized Frameworks for Future Power Systems Operation Planning and Control Perspectives is the first book to consider the principles and applications of decentralized decision making in future power networks The work opens by defining the emerging power system network as a system of systems SoS exploring the guiding principles behind optimal solutions for operation and planning problems Chapters emphasize the role of regulations prosumption behaviors and the implementation of transactive energy processes as key components in decentralizing power systems Contributors explore local markets distribution system operation and proactive load management The role of cryptocurrencies in smoothing transactive distributional challenges are presented Final sections cover energy system planning particularly in terms of consumer smart meter technologies and distributed optimization methods including artificial intelligence meta heuristic heuristic mathematical and hybrid approaches The work closes by considering decentralization across the cybersecurity distributed control market design and power quality optimization vertices Develops a novel framework for transactive energy management to enhance flexibility in future power systems Explores interactions between multiple entities in local power markets based on a distributed optimization approach Focuses on practical optimization planning and control of smart grid systems towards decentralized decision making *IEEE Africon* ,2004

*Applied Power and Energy Technology II* Hong Bo Fan, Xiao Guo Liu, Sheng Zhou Chen, 2014-08-13 Selected peer reviewed papers from the 2014 2nd International Conference on Advances in Energy and Environmental Science ICAEES 2014 June 21 22 2014 Guangzhou China [DigSilent PowerFactory for Power Systems](#) Power To Human, 2024-04-07 Unlock the potential of modern power system simulation with this authoritative and user friendly guide to DIgSILENT Whether you re a student researcher or industry professional Mastering Power System Simulation with DIgSILENT is your essential companion to understanding implementing and optimizing power systems using this cutting edge software Dive into the intricacies of power system analysis design and optimization as you embark on a journey through the world of DIgSILENT This comprehensive book equips you with the knowledge and skills needed to harness the full power of DIgSILENT for solving complex electrical engineering challenges Key Features Hands On Approach Step by step tutorials and practical examples guide you through the process of creating modeling and analyzing power systems using DIgSILENT Gain valuable insights into load flow analysis fault studies dynamic simulations and more Comprehensive Coverage Explore a wide range of power system topics from basic concepts to advanced techniques Understand generator modeling transmission line simulations stability analysis and renewable energy integration with clarity and precision Real World Applications Bridge the gap between theory and practice with real world case studies and industry examples Learn how DIgSILENT is applied in power utilities research projects and renewable energy projects worldwide Efficient Workflows Discover time saving strategies and optimization techniques to streamline your simulation workflows Master the software s tools libraries and

features to enhance your productivity Expert Insights Benefit from the author's extensive experience in power system engineering and simulation Gain practical tips best practices and troubleshooting guidance for overcoming common challenges Future Ready Knowledge Stay up to date with the latest advancements in power system simulation and DIgSILENT Prepare for emerging trends grid modernization and the integration of smart technologies Whether you're a seasoned power system professional or a newcomer to the field Mastering Power System Simulation with DIgSILENT empowers you to confidently tackle complex power system scenarios and propel your career forward Unlock the potential of DIgSILENT and embark on a transformative journey in power system simulation Get your copy today and embark on a transformative journey in power system simulation Ugol', 2005 *PowerFactory Applications for Power System Analysis* Francisco M. Gonzalez-Longatt, José Luis Rueda, 2014-12-27 This book presents a comprehensive set of guidelines and applications of DIgSILENT PowerFactory an advanced power system simulation software package for different types of power systems studies Written by specialists in the field it combines expertise and years of experience in the use of DIgSILENT PowerFactory with a deep understanding of power systems analysis These complementary approaches therefore provide a fresh perspective on how to model simulate and analyse power systems It presents methodological approaches for modelling of system components including both classical and non conventional devices used in generation transmission and distribution systems discussing relevant assumptions and implications on performance assessment This background is complemented with several guidelines for advanced use of DSL and DPL languages as well as for interfacing with other software packages which is of great value for creating and performing different types of steady state and dynamic performance simulation analysis All employed test case studies are provided as supporting material to the reader to ease recreation of all examples presented in the book as well as to facilitate their use in other cases related to planning and operation studies Providing an invaluable resource for the formal instruction of power system undergraduate postgraduate students this book is also a useful reference for engineers working in power system operation and planning Advanced Smart Grid Functionalities Based on PowerFactory Francisco Gonzalez-Longatt, José Luis Rueda Torres, 2017-12-29 This book consolidates some of the most promising advanced smart grid functionalities and provides a comprehensive set of guidelines for their implementation evaluation using DIgSILENT Power Factory It includes specific aspects of modeling simulation and analysis for example wide area monitoring visualization and control dynamic capability rating real time load measurement and management interfaces and co simulation for modeling and simulation of hybrid systems It also presents key advanced features of modeling and automation of calculations using PowerFactory such as the use of domain specific DSL and DIgSILENT Programming DPL languages and utilizes a variety of methodologies including theoretical explanations practical examples and guidelines Providing a concise compilation of significant outcomes by experienced users and developers of this program it is a valuable resource for postgraduate students and engineers working in power system operation and planning

## **Modelling and Simulation of Power Electronic Converter Dominated Power Systems in PowerFactory** Francisco

M. Gonzalez-Longatt, José Luis Rueda Torres, 2020-11-02 This book provides an overview of power electronic converters for numerical simulations based on DlgSILENT PowerFactory It covers the working principles key assumptions and implementation of models of different types of these power systems The book is divided into three main parts the first discusses high voltage direct currents while the second part examines distribution systems and micro grids Lastly the third addresses the equipment and technologies used in modelling and simulation Each chapter includes practical examples and exercises and the accompanying software illustrates essential models principles and performance using DlgSILENT PowerFactory Exploring various current topics in the field of modelling power systems this book will appeal to a variety of readers ranging from students to practitioners

**Modeling Study Power Distribution System Network Using Digsilent Power Factory 13.2 Simulation Software** Lukman Hakimi Ab Wahab, 2009 The reason of power flow study is to determine the steady state operating condition of the electrical power network The steady state can be determined by finding out the flow of active power and reactive power throughout the network and the voltages magnitudes and phase angle all nodes of the network Load flow studies are used to ensure that electrical power transfer from generators to consumers through the grid system is stable reliable and economic Using a software allow engineers to solve power system analysis more easily This project is to produce analyze the power system network plant It worked by using Digsilent Power Factory The result can be divide by two which are power flow analysis and short circuit analysis The power flow will present each voltage at each component Like low much voltage at the bus bar including the loading at transformer cabal load and motor Short circuit analysis will initialize the initial short circuit and the peak short circuit This result from the analysis will be used for another issue such as the safe operation and future growth of the plant

*User's Manual* L. D. Smoot, Combustion Laboratory, 1984    System Design and User Manual , 1981    *PDIF* , 1988    User Manual Institution of Electrical Engineers, 1991    **LOADSIM** , 1984    **PDP-11/34 SYSTEM USER'S MANUAL** , 1977    **User Manual for SIMPLIS AT** & T Bell Laboratories, Duke University. Center for Solid-State Power Conditioning and Control, 1988    **User's Manual for the List of Parts** , 1967

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