



**GIS**  
for ENHANCED  
ELECTRIC  
UTILITY  
PERFORMANCE

Bill Meehan

# Gis For Enhanced Electric

**Loucas G. Christophorou, James K.  
Olthoff**

## **Gis For Enhanced Electric:**

**GIS for Enhanced Electric Utility Performance** Bill Meehan, 2013-07-01 This book describes how geospatial technology in the form of a modern enterprise geographic information system GIS can be applied to all aspects of the electric utility business from Smart Grid to generation to transmission to distribution to the retail supply of electricity to customers This book appeals to readers that are interested not only in the technical details of a GIS enabled electric system but also how such a system works in the real business world *Eleventh International Symposium on High Voltage Engineering, 23-27 August 1999*, 1999 This text presents the proceedings of the Eleventh International Symposium on High Voltage Engineering ISH 99 The five volumes contain a total of 485 papers Gas Insulated Substations Hermann J. Koch, 2022-01-24 GAS INSULATED SUBSTATIONS An essential reference guide to gas insulated substations The second edition of Gas Insulated Substations GIS is an all inclusive reference guide to gas insulated substations GIS and its advanced technologies Updated to the latest technical developments and applications the guide covers basic physics of gas insulated systems SF6 insulating gas and its alternatives safety aspects and factors to choose GIS GIS technology its modular structure control and monitoring systems testing installation rules and guidelines for operation specification and maintenance Detailed information on various types for GIS with 14 reference project explanations and three extensive case studies give information for the best solutions of practical applications Special solutions using mobile substations concepts mixed technology switchgear MTS with air and gas insulated technology underground substations and the use of special GIS substation buildings e g shopping centers parking lots city parks business complexes or subway stations are explained Future developments of GIS technology are shown for the next steps in alternatives to SF6 low power instrument transformers and digitalization of substations A new chapter explains advanced technologies applied to GIS projects which cover the following environmental issues for the substation permission process insulation coordination studies for the network requirements including very fast transients project scope development risk based asset management health and safety impact electromagnetic fields SF6 decomposition byproducts and condition assessment Disruptive development steps in gas insulated substations technologies are also covered in this second edition Vacuum breaking and switching technology for rated voltages of up to 500 kV is explained in detail with its physical background Principle function and possible implementation of low power instrument transformers LPIT are explained and examples of applications are given The principles of digital twin for gas insulated substations GIS and gas insulated transmission lines GIL are explained in theory and project applications show the practical use and advantage The wide and fast growing technical field of offshore GIS applications for AC and DC is explained on many examples and gives information on special requirements when getting offshore Theoretical requirements on DC gas insulated systems methods of testing prototype installation tests modular design features and advantages in applications are given Finally impact and advantages of digital substations using GIS are

explained Key features Written by leading GIS experts involved in development and project applications Discusses practical and theoretical aspects Detailed material of GIS for new and experienced GIS users and project planners Invaluable guide to practicing electrical mechanical and civil engineers as well as third and fourth year electric power engineering students

Gaseous Dielectrics IX Loucas G. Christophorou, James K. Olthoff, 2012-12-06 Gaseous Dielectrics IX covers recent advances and developments in a wide range of basic applied and industrial areas of gaseous dielectrics Empowering Electric and Gas Utilities with GIS Bill Meehan, 2007 Empowering Electric and Gas Utilities with GIS is for utility executives operations and technology managers and financial officers It s also for GIS professionals who may want to explore careers in the electric and gas businesses BOOK JACKET Deep Learning for Earth Observation and Climate Monitoring Uzair Aslam Bhatti, Mir Muhammad Nizamani, Yong Wang, Hao Tang, 2025-03-19 Deep Learning for Earth Observation and Climate Monitoring bridges the gap between deep learning and the Earth sciences offering cutting edge techniques and applications that are transforming our understanding of the environment With a focus on practical scenarios this book introduces readers to the fundamental concepts of deep learning from classification and image segmentation to anomaly detection and domain adaptability The book includes practical discussion on regression parameter retrieval forecasting and interpolation among other topics With a solid foundational theory real world examples and example codes it provides a full understanding of how intelligent systems can be applied to enhance Earth observation and especially climate monitoring This book allows readers to apply learning representations unsupervised deep learning and physics aware models to Earth observation data enabling them to leverage the power of deep learning to fully utilize the wealth of environmental data from satellite technologies Introduces deep learning for classification covering recent improvements in image segmentation and encoding priors anomaly detection and target recognition and domain adaptability Includes both learning representations and unsupervised deep learning covering deep learning picture fusion regression parameter retrieval forecasting and interpolation from a practical standpoint Provides a number of physics aware deep learning models including the code and the parameterization of models on a companion website as well as links to relevant data repositories allowing readers to test techniques themselves Epoxy-based Spacers for Gas Insulated Power Apparatus Boxue Du, Hucheng Liang, 2022-11-13 This book offers an insight into the insulation failures in GIS GIL and provides practical guidance for improving the insulation reliability of epoxy based spacers High voltage gas insulated apparatuses including gas insulated switchgears GIS and transmission lines GIL playing an important role in the global power transmission system Epoxy based spacers are key components in GIS GIL playing the role of electrical insulation and mechanical support However insulation failures frequently occur around the epoxy based spacers threatening the safe operation of the electric power system Three topics make up this book with seven to nine chapters in each topic In the first topic the surface charging and discharging behaviors of epoxy based spacers are discussed to deepen the readers understanding on the insulation problems in GIS GIL And the insulation breakdown of epoxy

based spacers is found to be closely related to the electric field distortion under complex operating conditions In the second topic original researches on the surface functionally graded materials SFGM are presented for relaxing the electric field distortion around the epoxy based spacers in both AC and DC GIS GIL and a series of optimization methods and fabrication techniques for the SFGM spacers are introduced and discussed In the last topic the nonlinear conductivity materials NCM also known as self adaptive materials or intelligent materials are applied as coatings to adaptively regulate the electric field distributions along the surfaces of the epoxy based spacers Besides the concept of the multi dimensional functionally graded materials MFGM is proposed to uniform the electric field distributions in DC GIS GIL under stationary and transient voltages exhibiting great potential in the future application

*Modeling Electric Distribution with GIS* Bill Meehan,2013 *Modeling Electric Distribution with GIS* shows why the successful implementation of an enterprise GIS in the electric distribution industry is based on a sound and thorough data model For GIS managers business executives and information technology managers the book s technical information is designed for quick comprehension

*Cartography and Geographic Information Systems* ,1994 *Applications and Science of Computational Intelligence* ,2000 *Conference Publication* ,1977

**2001 IEEE Conference on Electrical Insulation and Dielectric Phenomena** IEEE Dielectrics and Electrical Insulation Society Staff,2001 These volumes contain the conference proceedings of the 2001 IEEE Conference on Electrical Insulation and Dielectric Phenomena

*GIS World* ,1998 *Proceedings of ... International Symposium on Electrical Insulating Materials* ,1998 **Japanese Journal of Applied Physics** ,1999 *Electrical World* ,1887 **Proceedings of the ... Symposium on Electrical Insulating Materials** ,1998 *Proceedings - International Conference on Large High Voltage Electric Systems (CIGRE)*. International Conference on Large High Voltage Electric Systems,1992 **GIS India** ,2003 **Proceedings of the 3rd International Conference on Properties and Applications of Dielectric Materials** ,1991

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