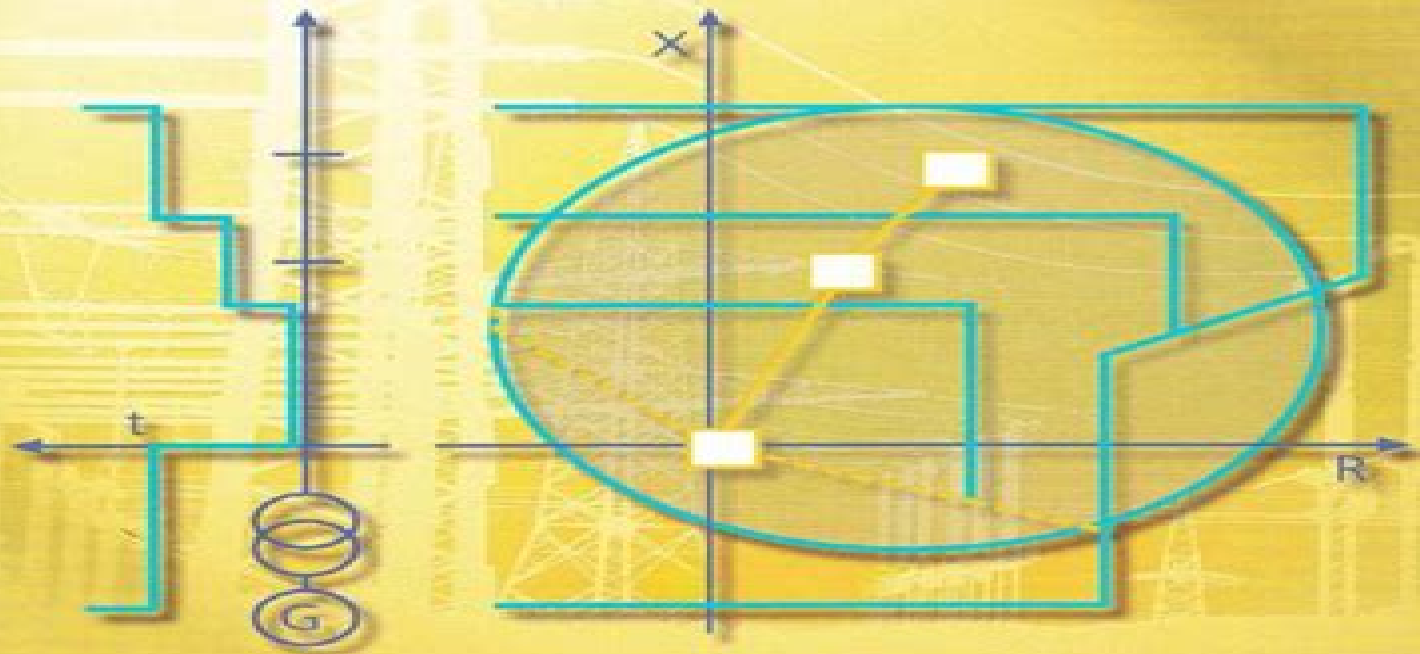


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Numerical Distance Protection

Principles and Applications



SIEMENS

Second Edition

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Numerical Differential Protection Gerhard Ziegler, 2012-01-27 Differential protection is a fast and selective method of protection against short circuits It is applied in many variants for electrical machines transformers busbars and electric lines Initially this book covers the theory and fundamentals of analog and numerical differential protection Current transformers are treated in detail including transient behaviour impact on protection performance and practical dimensioning An extended chapter is dedicated to signal transmission for line protection in particular modern digital communication and GPS timing The emphasis is then placed on the different variants of differential protection and their practical application illustrated by concrete examples This is completed by recommendations for commissioning testing and maintenance Finally the design and management of modern differential protection is explained by means of the latest Siemens SIPROTEC relay series As a textbook and standard work in one this book covers all topics which have to be paid attention to for planning designing configuring and applying differential protection systems The book is aimed at students and engineers who wish to familiarise themselves with the subject of differential protection as well as the experienced user entering the area of numerical differential protection Furthermore it serves as a reference guide for solving application problems For the new edition all contents have been revised extended and updated to the latest state of the art of protective relaying

Matlab - Modelling, Programming and Simulations Emilson Pereira Leite, 2010

Leading-edge Electric Power Research Cian M. O'Sullivan, 2008 This book presents new and significant research on electric power The world is becoming increasingly electrified For the foreseeable future coal will continue to be the dominant fuel used for electric power production The low cost and abundance of coal is one of the primary reasons for this Electric power transmission a process in the delivery of electricity to consumers is the bulk transfer of electrical power Typically power transmission is between the power plant and a substation near a populated area Electricity distribution is the delivery from the substation to the consumers Due to the large amount of power involved transmission normally takes place at high voltage 110 kV or above Electricity is usually transmitted over long distance through overhead power transmission lines Underground power transmission is used only in densely populated areas due to its high cost of installation and maintenance and because the

high reactive power gain produces large charging currents and difficulties in voltage management A power transmission system is sometimes referred to colloquially as a grid however for reasons of economy the network is rarely a true grid Redundant paths and lines are provided so that power can be routed from any power plant to any load centre through a variety of routes based on the economics of the transmission path and the cost of power Much analysis is done by transmission companies to determine the maximum reliable capacity of each line which due to system stability considerations may be less than the physical or thermal limit of the line Deregulation of electricity companies in many countries has led to renewed interest in reliable economic design of transmission networks

DIGITAL POWER SYSTEM PROTECTION S. R. BHIDE, 2014-10-01 Digital power system protection as a subject offers the use of computers in power line relaying which is the act of automatically controlling the power system via instrumentation and control devices This book is an attempt to make a gentle introduction to the nitty gritty of digital relays Written in a simple clear and student friendly style this text covers basics of digital processing of analog signals for the purpose of relaying All important basic algorithms that are used in various types of digital relays have been explained FIR and IIR filters have been presented in such a manner that students will be able to develop intuitive understanding The book also covers DFT and FFT and synchrophasor technology in details MATLAB programs and Excel simulations have been given to reinforce the comprehension of the algorithms This book has been thoroughly class room tested and based on course notes which is primarily intended for undergraduate and postgraduate students of electrical engineering Key Features In depth coverage of DSP fundamentals Pedagogical tools like figures flowcharts block diagrams and tables have been extensively used Review questions are given at the end of each chapter Extensive references to literature on power system protection

Digitaler Distanzschutz Gerhard Ziegler, 2008-09-26 Der Distanzschutz bildet die Basis des Netzschutzes in bertragungsnetzen und vermaschten Verteilungsnetzen Das Buch behandelt die Grundlagen des Distanzschutzes und die Besonderheiten der Digitaltechnik Einen Schwerpunkt bildet die Anwendung der digitalen Distanzrelais im Verteilungs und bertragungsnetz F r die zweite Auflage wurden alle Inhalte bearbeitet und insbesondere die Produktbeschreibungen auf den neuesten Stand gebracht Das Buch wendet sich an Ingenieure und Studenten die sich in das Gebiet des Selektivschutzes einarbeiten wollen aber auch an praxiserfahrene Anwender die den Einstieg in die digitale Distanzschutztechnik suchen Au erdem dient es als

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