

The negative and zero sequence impedances are worked out as follows:

Source	$Z_1 = Z_2$
Cable	$Z_1 = Z_2$ and $Z_0 = 3 \times Z_1$
Transformer	$Z_1 = Z_2$ and $Z_0 = 0.9 \times Z_1$
Motor	$Z_1 = 0.73 \times Z_2$ and $Z_0 = 0.33 \times Z_1$

Hence negative seq. impedances is

$$\begin{aligned} \text{Source side } Z_s &= 0.1312 + 0.08 + 4.41 &= & 4.6212 \\ \text{Motors } Z_m &= 0.73 \times 78.86/5 &= & 11.514 \end{aligned}$$

$$\text{Equivalent neg. seq. impedance} = \frac{4.6212 \times 11.514}{4.6212 + 11.514} = \frac{53.2085}{16.1352} = 3.298$$

For the zero seq. impedance due to the delta primary, the source impedance will only be the transformer hence

$$\begin{aligned} \text{Source side } Z_s &= 0.9 \times 4.41 = 3.969 \\ \text{Motors } Z_m &= 0.33 \times (78.86/5) = 5.2048 \\ \text{Equivalent zero seq. impedance} &= \frac{3.969 \times 5.2048}{3.969 + 5.2048} = 2.252 \end{aligned}$$

The source only contributes to the earth fault current as the motors are 3 ph (no neutral)

Hence the 3ph. fault level at the LV switchboard bus is

$$100 / 3.574 = 27.980 \text{ MVA ie } \frac{27.980}{0.415 \times \sqrt{3}} = 38.93 \text{ kA with motor}$$

$$100 / 4.6212 = 21.64 \text{ MVA ie } \frac{21.64}{0.415 \times \sqrt{3}} = 30.1 \text{ kA without motor}$$

and the L-G fault at the LV switchboard bus is

$$\begin{aligned} \text{With the motor:} \\ 100 / (3.574 + 3.298 + 2.252) &= 10.960 \text{ MVA} & \frac{10.960}{0.415 \times \sqrt{3}} &= 15.25 \text{ kA} \end{aligned}$$

$$\begin{aligned} \text{Without motor:} \\ 100 / (4.6212 + 3.298 + 2.252) &= 9.83 \text{ MVA} & \frac{9.83}{0.415 \times \sqrt{3}} &= 13.67 \text{ kA} \end{aligned}$$

Distance Relay Setting Calculation Guide

C. Christopoulos, A. Wright



Distance Relay Setting Calculation Guide:

Proceedings of the Tenth Power Systems Computation Conference Graz Austria, 2016-06-06 *Proceedings of the Tenth Power Systems Computation Conference* **Intelligent Electrical Protection in Traditional Networks and Smart Grids** Salman Rezaei, 2025-02-20 The main objective of this book is to enlighten readers on the automatic protection control and monitoring of power systems The focus is on the development of intelligent protective algorithms to combat ferroresonance and Sub Synchronous Resonance SSR in both traditional networks and smart grids Initially the book covers the theoretical aspects of ferroresonance SSR and protective relays It then discusses the occurrence of ferroresonance and SSR in the grid and the impact of these phenomena on the operation of electrical components and a variety of protective relays Intelligent algorithms are designed and tested for various types of protective relays The book also introduces a power automation system known as the Universal Protection Control and Power Energy Management Centre UPCPEMC This SCADA based centre includes hardware components and new software for simulation analysis protection control and power system component design Additionally it includes power and energy management programs that are suitable for use in both traditional networks and smart grids *The Relay Testing Handbook #9D*: Chris Werstiuk, 2012-02-28 The Relay Testing Handbook was created for relay technicians from all backgrounds and provides the knowledge necessary to test most modern protective relays installed over a wide variety of industries Basic electrical fundamentals detailed descriptions of protective elements and generic test plans are combined with examples from real life applications to increase your confidence in any relay testing situation A wide variety of relay manufacturers and models are used in the examples to help you realize that once you conquer the sometimes confusing and frustrating man machine interfaces created by the different manufacturers all digital relays use the same basic fundamentals and most relays can be tested by applying these fundamentals This package provides a step by step procedure for testing the most common distance protection applications used by a variety of manufacturers Each chapter follows a logical progression to help understand why distance protection is used and how it is applied Testing procedures are described in detail to ensure that the distance protection has been correctly applied Each chapter uses the following outline to best describe the element and the test procedures Application Settings Pickup Testing Timing Tests Tips and Tricks to Overcome Common Obstacles Real world examples are used to describe each test with detailed instructions to determine what test parameters to use and how to determine if the results are acceptable Thank you for your support with this project and I hope you find this and future additions of The Relay Testing Handbook to be useful

Proceedings of 2020 International Top-Level Forum on Engineering Science and Technology Development Strategy and The 5th PURPLE MOUNTAIN FORUM (PMF2020) Yusheng Xue, Yuping Zheng, Anjan Bose, 2021-01-23 This book includes original peer reviewed research papers from the 2020 International Top Level Forum on Engineering Science and Technology Development Strategy the 5th PURPLE MOUNTAIN FORUM on Smart Grid Protection and Control PMF2020

held in Nanjing China on August 15 16 2020 Hot topics and cutting edge technologies are included Advanced Power Transmission Technology AC DC Hybrid Power Grid Technology eIoT Technology and Application Operation Protection and Control of Power Systems Supplied with High Penetration of Renewable Energy Sources Active Distribution Network Technology Smart Power Consumption and Energy saving Technology New Technology on Substation Automation Clean Energy Technology Energy Storage Technology and Application Key Technology and Application of Integrated Energy Application of AI Block Chain Big Data and Other New Technologies in Energy Industry Application of New Information and Communication Technology in Energy Industry Application of Technical Standard System and Related Research in Energy Industry The papers included in this proceeding share the latest research results and practical application examples on the methodologies and algorithms in these areas which makes the book a valuable reference for researchers engineers and university students *Network Protection & Automation Guide* ,2002 **Power Systems Protection, control**

&automation Maty Ghezelayagh,2020-03-05 This book provides practical applications of numerical relays for protection and control of various primary equipment namely distribution and transmission networks HV and EHV transformers and busbars reactive and active power plants Unlike other books attempts have been made to address the subject from practical point of view rather than theoretical one which can otherwise be found in most of other text books The setting design and testing philosophy of numerical relays as discussed in this book have been successfully applied in the fields on various projects and consequently can be used as a practical guideline for implementation on future projects The book covers the followings subjects Fundamental concepts in the field of power system protection and control Required system modelling and fault level analysis for the design and setting of protection and control devices Setting and design philosophy of numerical relays of different primary equipment Practical application of anti Islanding schemes for two different systems namely distribution generation DG and transmission generation TG Challenges and solutions which are encountered during secondary equipment refurbishment replacement in brown field substations with inclusion of two practical case studies Required tests for factory acceptance tests FAT site acceptance tests SAT and commissioning tests of numerical relays in conventional and digital substations Causes analysis and proposed mitigation techniques of more than 100 worldwide disturbances which have occurred in different type of primary equipment which have resulted to major system black out or plant explosion or even fatality and New and future trend of application of numerical relays including application of super IED for protection and control of multi primary equipment implementation of digital substation remote integrations self and remote testing of IED distribution networks fault location techniques and fault locators using travelling waves synchro phasors time domain line protection using travelling waves adaptive slope characteristics of differential protection protection and control schemes of micro grids mitigation technique for prevention of loss of reactive power plants and transformers due to solar storms

AETA 2013: Recent Advances in Electrical Engineering and Related Sciences Ivan Zelinka,Vo Hoang Duy,Jaesang

Cha,2013-11-01 Over the past decades fault diagnosis FDI and fault tolerant control strategies FTC have been proposed based on different techniques for linear and nonlinear systems Indeed a considerable attention is deployed in order to cope with diverse damages resulting in faults occurrence

The 37th Annual Conference on Power System and Automation in Chinese Universities (CUS-EPISA) Pingliang Zeng,Xiao-Ping Zhang,Vladimir Terzija,Yi Ding,Yunxia Luo,2023-04-24 This book includes original peer reviewed research papers from the 37th Annual Conference of Power System and Automation in Chinese Universities CUS EPISA held in Hangzhou China on October 23 25 2022 These papers cover topics as Evolution and development path of the power system Resilience assessment analysis and planning of power system Power system planning and reliability Modelling and simulation of novel power system Power electronic for power system stability analysis Power system relay protection and automation and so on The papers included in this proceedings share the latest research results and practical application examples on the methodologies and algorithms in these areas which makes the book a valuable reference for researchers engineers and university students

Protection & Control Systems of Wind Farm Power Plants Maty Ghezelayagh,2020-03-05 There are a number of books in the market about wind energy turbine controllers modelling and different aspects of integration of Wind Farm Power Plants WPP to grids But none of these books meets the expectations of design and field engineers technicians to address directly the setting and design philosophy of different Intelligent Electronic Devices IED of WPP networks This book provides practical applications of numerical relays for protection and control of different parts of onshore offshore WPP network namely wind turbine generator collector feeder and EHV interconnection transmission line to grid In addition required changes to existing special protection system SPS and run back scheme by adding a new WPP are discussed The topology and characteristics of WPP networks are different from convectional one for both onshore and offshore WPP In addition the fault current contribution from wind farm generators are low 1 1 1 2 pu These causes significant challenge for setting and design of IEDs of WPP in order to meet the common industry practice requirement with respect to reliability sensitivity stability security and grading coordination The author believes that this book may be unique with respect to addressing these challenges and provision of the mitigation techniques to rectify the deficiencies of existing industry practice which otherwise have not been discussed for real systems in any other book The content of this book have been successfully applied in the field for various WPPs projects and consequently can be used as a practical guideline for implementation for future projects The content of the book covers Principal of Operation of WPP Modelling of different components of WPP Short Circuit current and voltage characteristics of different type of wind turbine generators Setting and Design of Protection systems of WPP Network Design of Control systems of WPP Lightning and Overvoltage Protection of WPP and Analysis of Disturbance on the WPP networks

Electrical Power System Protection C. Christopoulos,A. Wright,1999-06-30 The death of Professor Arthur Wright in the summer of 1996 deprived me of a friend and a colleague whose judgement and experience shaped this book I pay tribute to his contributions to protection

and electrical engineering education In the five years since the first edition appeared many developments have taken place and it is now necessary to update the book The use of digital communications and advanced signal processing techniques is now widespread and several fully numeric relays are available from manufacturers Two new Chapters 13 and 14 have been added to introduce readers to these concepts and associated techniques Artificial intelligence is making its impact in all engineering applications and power system protection is no exception Expert systems fuzzy logic artificial neural networks adaptive and integrated protection synchronized measurements using the global positioning system genetic algorithms flexible a c transmission systems are some of the techniques considered in connection with protection Although many of these techniques have not yet found major application in protection it is nevertheless essential for the educated protection engineer to have a basic understanding of the underlying principles and methodology so that he or she can evaluate their suitability for new relaying problems and applications Chapter 15 was therefore added to guide readers through this developing area I have also added some new material in other chapters to reflect changes over the past years

Preprints IEEE Power Engineering Society. Summer Meeting, 1979 **Proceedings of the Tenth Power Systems Computation Conference, Graz, Austria, 19-24 August 1990** Denis Sjelvgren, 1990 The proceedings of the 16th Annual Conference of China Electrotechnical Society Qingxin Yang, Xidong Liang, Yaohua Li, Jinghan He, 2022-04-17 This book gathers outstanding papers presented at the 16th Annual Conference of China Electrotechnical Society organized by China Electrotechnical Society CES held in Beijing China from September 24 to 26 2021 It covers topics such as electrical technology power systems electromagnetic emission technology and electrical equipment It introduces the innovative solutions that combine ideas from multiple disciplines The book is very much helpful and useful for the researchers engineers practitioners research students and interested readers **Emerging Developments in the Power and Energy Industry** Rodolfo Dufo-López, Jaroslaw Krzywanski, Jai Singh, 2019-10-31 Power and Energy Engineering are important and pressing topics globally covering issues such as shifting paradigms of energy generation and consumption intelligent grids green energy and environmental protection The 11th Asia Pacific Power and Energy Engineering Conference APPEEC 2019 was held in Xiamen China from April 19 to 21 2019 APPEEC has been an annual conference since 2009 and has been successfully held in Wuhan 2009 2011 Chengdu 2010 2017 Shanghai 2012 2014 Beijing 2013 2015 Suzhou 2016 and Guilin 2018 China The objective of APPEEC 2019 was to provide scientific and professional interactions for the advancement of the fields of power and energy engineering APPEEC 2019 facilitated the exchange of insights and innovations between industry and academia A group of excellent speakers have delivered keynote speeches on emerging technologies in the field of power and energy engineering Attendees were given the opportunity to give oral and poster presentations and to interface with invited experts Protective Relaying Walter A. Elmore, 2003-09-09 Targeting the latest microprocessor technologies for more sophisticated applications in the field of power system short circuit detection this revised and updated source imparts

fundamental concepts and breakthrough science for the isolation of faulty equipment and minimization of damage in power system apparatus The Second Edition clearly describes key procedures devices and elements crucial to the protection and control of power system function and stability It includes chapters and expertise from the most knowledgeable experts in the field of protective relaying and describes microprocessor techniques and troubleshooting strategies in clear and straightforward language

Proceedings - International Conference on Large High Voltage Electric Systems (CIGRE). International Conference on Large High Voltage Electric Systems,1994 CCNP Route 642-902 Official Certification Guide Wendell Odom,2010 Cisco certified networking professional Route 642 902 official certification guide

Conference Publication ,1992 **Advanced Theory and Applications of Engineering Systems Under the Framework of Industry 4.0** Yongsheng Ma,2023-03-27 This book is a collection of selected papers submitted to the 2022 International Conference on Intelligent Systems Design and Engineering Applications organized in Tokyo Japan May 13 15 2022 ISDEA2022 The book is organized according to the conference s five major themes including 1 Theory and Application of Intelligent Computing 2 Intelligent Information System and Management Decision 3 Artificial Intelligence and Robots 4 Mechanical design and intelligent manufacturing and 5 Intelligent control and detection technology ISDEA establishes a platform for researchers and scholars working in the field of intelligent systems design and engineering applications to present their newest research results exchange innovative ideas propose new models as well as demonstrate advanced methodologies and novel design and systems City Survey Manual F.G Anderson,2020-06-19

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