Design and Analysis of Ground Grid System For Substation using E-TAP Software and FDM code in MATLAB

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Abstract—The paper depicts about design of ground grid system for 66/11KV rectangular substation. Although it is designed by IEEE Std 80-2000, it also illustrates step potential, touch potential and absolute potential in normal and faulty condition by E-TAP intelligent software version 12.6.0. Furthermore, its graph design is analyzed by FDM (Finite Difference Method) via MATLAB code. Some of the factor which are useful in ground grid study are described below,
1) Fault current magnitude and duration
2) Geometry of grounding mat
3) Soil resistivity
4) Human factors Such as
-Body resistance -Standard assumption on physical condition of the individual

Keywords— Ground grid system, FDM (Finite Difference Method) MATLAB code, E-TAP version 12.6.0 ground grid design, Substation grounding.

I. INTRODUCTION

In substation earthing system is essential not only for providing the protection for people working in the vicinity of earthed facilities and equipment against danger of electric shock but also maintain proper function of electrical system. Reliability and security are to be taken in consideration as well as adherence to statutory obligations (IEEE and Indian standards on electrical safety [1-2] and environmental aspects). This paper is concerned with earthing practices and design for particular 66/11KV outdoor AC substation for power frequency in the range of 50 Hz. DC substation GIS and lightening effects are not covered in this paper. Moreover, the software output also has been seen for crosschecking of theoretical calculation. Furthermore, the analysis of software graph is done by FDM (Finite Difference Method) which is one of the mathematical solutions and it shows that how the graph generates in software.
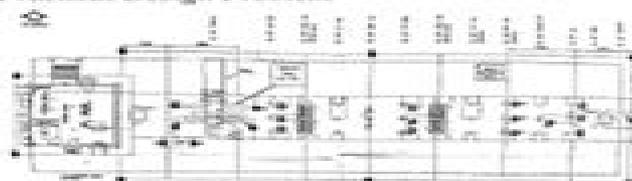
II. EARTHING SYSTEM FOR SUBSTATION

A. *Components of earthing system*

An effective substation earthing system typically consists of earth rods, connecting cables from buried earthing grid to metallic parts of structures and equipment, connections to earthed system neutrals, and the earth surface insulating covering material briefly discussed in [1,3]. Current flowing into the earthing grid from lightening arrester operation impulse or switching surge flashover of insulators and line to ground fault current from the bus or connected

transmission lines all cause potential differences between earthed points in the substation. Without a properly designed earthing system, large potential differences can exist between different points within the substation itself. Under normal circumstances, it is the current constitutes the main threat to personal.

B. *Practical Design Problem*

1. All dimensions are in mm unless otherwise specified.
2. Earth mat & earth electrode location shown are indicative. Only minor modification if any may be carried out at site.
1. Wherever earthing conductor infringes with cable trench it shall be laid at 300mm below the trench.
2. Main grid conductor shall lad at minimum 600mm below figure.
3. minimum distance of 6000mm shall be maintained between any two adjacent earth electrodes.
4. wherever earthing grid infringes with foundation, grid conductor shall be diverted suitable at site.
5. Every equipment/structure shall be connected to grid by two distinct earth connections.
6. Every alternate fence post shall be earthed with 25x3mm galvanized iron flat.
7. Gate shall be earthed with 25x3mm galvanized iron flat.
8. BMKs junction for current transformer and potential transformer shall be earthed at two points with 25x3mm galvanized iron flat.
9. For standard earthing drawings of various equipment refer figure.

III. MATHEMATICAL SOLUTION

A. *Given Data: -*
1. Fault duration $t_f=1s$
2. Current division factor $(s_f)=1$

Fdm Code In Matlab

Stephen Robert Otto,James P. Denier

Fdm Code In Matlab:

Simulating Normal and Arrhythmic Dynamics: From Sub-Cellular to Tissue and Organ Level Hans Dierckx,Flavio H. Fenton,Simonetta Filippi,Alain Pumir,S. Sridhar,2019-10-04 **A Practical Approach to Advanced Mathematical Modelling in Civil Engineering** Mohammad Heidarzadeh,Theodosios K. Papathanasiou,Yurui Fan,Hamid Bahai,2025-04-18 A Practical Approach to Advanced Mathematical Modelling in Civil Engineering introduces advanced mathematical techniques and modelling concepts through real world practical applications in key areas of Civil Engineering It fills a crucial gap in the existing literature by using examples from structural analysis coastal processes and soil behaviour The authors approach to teaching has been developed over years of experience and aims to engage readers by demonstrating the universal utility of mathematical methods in solving engineering challenges The chapters are designed around engineering subject areas such as structural transportation and geotechnical engineering A focus on engineering rather than mathematical concepts helps students of engineering to concentrate on real world applications and prescribe available mathematical techniques to each as well as being useful for expanding the knowledge of already practicing engineers The appendix backs this learning up with basic engineering mathematics providing a comprehensive resource for all levels from undergraduate and graduate engineering students Those already familiar with the basics can turn to the appendix at a later date to revisit their knowledge The book will also be accompanied by a companion website hosting downloadable ready to use computer programs and code addressing real world engineering problems designed in the popular programming environment MATLAB For those who are unfamiliar with the program Appendix B provides a useful introduction to MATLAB These codes are referred to throughout the book and are available for readers to download and use themselves

Engineering Analysis Zhihe Jin,2024-05-20 Engineering Analysis Advanced Mathematical Methods for Engineers introduces graduate engineering students to the fundamental but advanced mathematics tools used in engineering application especially in mechanical aerospace and civil engineering Most engineering problems are described by differential equations particularly partial differential equations PDEs Deformation and failure in solid structures fluid flow heat transfer and mass diffusion are all governed by PDEs in general Many physical quantities in engineering are tensors including deformation gradient strain rates stresses elastic stiffness and thermal conductivity of composite materials This book helps engineering graduate students develop the skills to establish the mathematical models of engineering problems and to solve the problems described by the mathematical models Incorporates numerous engineering examples to help students better understand mathematical concepts and methods for developing mathematical models and finding the solutions of engineering problems Integrates the MATLAB computation tool with many MATLAB programs to enhance students ability to solve engineering problems Includes tensor analysis to better prepare students for advanced engineering courses such as theory of elasticity fluid dynamics and heat transfer Inclusion of tensor analysis also allows a unified treatment of vector and

tensor calculus **Principles of Communication Systems Simulation with Wireless Applications** William H. Tranter,2004 This volume presents an overview of computer based simulation models and methodologies for communication systems Topics covered include probability random process and estimation theory and roles in the design of computer based simulations *Simulations and Student Learning* Matthew Schnurr,Anna MacLeod,2021-01-04 The book underlines the value of simulation based education as an approach that fosters authentic engagement and deep learning **Extending Two-dimensional Infrared Spectroscopy to Study DNA Structure with Native and Non-native Infrared Probes** Amber T. Krummel,2007 *40th AIAA Aerospace Sciences Meeting & Exhibit* ,2002 *Advanced Materials and Application Technologies II* Chafic-Touma Salame,Auday H. Shaban,Akram Jabur,2021-09-20 Special topic volume with invited peer reviewed papers only Grating-assisted Glass Waveguide Devices and Fiber-optic Parametric Amplifiers for Optical Communication Systems Jaeyoun Kim,2003 **Numerische Bewertung von Optionen mit Hilfe der Methode der Endlichen Differenzen** Steffen Büchner,Georgi Dimitrov,2009-02-12 Studienarbeit aus dem Jahr 2008 im Fachbereich BWL Bank B rse Versicherung Note 1 3 Katholische Universit t Eichst tt Ingolstadt Lehrstuhl f r Wirtschaftstheorie Veranstaltung Proseminar Wirtschaftstheorie Theorie und Empirie internationaler Kapitalm rkte Sprache Deutsch Abstract Die Bewertung von Optionen ist aufgrund ihrer Relevanz f r die Kapitalm rkte seit Anfang des letzten Jahrhunderts Gegenstand empirischer Kapitalmarktforschung gewesen ber erste Formeln von Bachelier 1 10 hin zu dem seit Anfang der 1970er Jahre popul ren Modell von Black Merton und Scholes 2 ist aber die grundlegende Problematik weitgehend hnlich geblieben Der zufallsverteilte Wachstumsprozess des Underlyings muss entsprechend abgebildet und berechnet werden um valide Optionspreise angeben zu k nnen Dabei ergeben sich bei analytischen L sungen Probleme durch die Stetigkeit der Zeit und Randwertproblematiken Auch die faire Preissetzung von Optionen ist f r einen effizienten Kapitalmarkt u erst wichtig Diese Proseminar Arbeit stellt die wichtigsten Optionsarten kurz vor geht genauer auf das Black Scholes Modell das Jump Diusion Modell nach Merton und Kou und das Varianz Gamma Modell ein und stellt die Methode der finiten Differenzen vor um die Black Scholes Differentialgleichung numerisch zu l sen Hier ergeben sich aus den mathematischen Eigenschaften des Black Scholes Modells verschiedene M glichkeiten die Approximation der partiellen Differentialgleichung PDGL vorzunehmen Neben der Option die urspr ngliche PDGL direkt durch Differenzgleichungen zu l sen werden wir auch noch die Umwandlung der PDGL in eine reine Diffusionsgleichung vornehmen was das Potential aber auch weitere Problematiken sowohl des Modells als auch der Methoden aufzeigt **Modern Communication Systems** Leon W. Couch,1995 This treatment of modern communication systems presents practical design applications as developed from basic principles After covering the basic principles of digital and analogy baseband and bandpass signals the text includes practical design examples that illustrate transmitter and receiver blocks effects of nonlinearities spectral characteristics and noise performance It is designed for students studying courses in communication systems digital and computer communications or

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Reviewing **Fdm Code In Matlab**: Unlocking the Spellbinding Force of Linguistics

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