

# 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 12.6.8. 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 12.6.8 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 lightning 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.

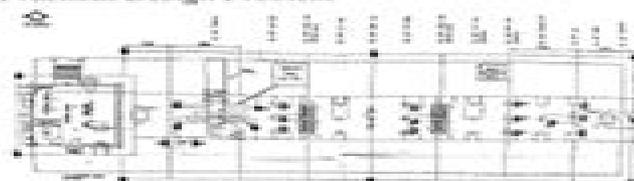
## II. EARTHING SYSTEM FOR SUBSTATION

### 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 lightning 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.
3. Whenever earthing conductor infringes with cable trench it shall be laid at 300mm below the trench.
4. Main grid conductor shall laid at minimum 600mm below figure.
5. minimum distance of 6000mm shall be maintained between any two adjacent earth electrodes.
6. wherever earthing grid infringes with foundation, grid conductor shall be diverted suitable at site.
7. Every equipment/structure shall be connected to grid by two distinct earth connections.
8. Every alternate fence post shall be earthed with 25x3mm galvanized iron flat.
9. Gate shall be earthed with 25x3mm galvanized iron flat.
10. BMKs junction for current transformer and potential transformer shall be earthed at two points with 25x3mm galvanized iron flat.
11. 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 ( $\alpha_f$ )=1

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### **Table of Contents Fdm Code In Matlab**

1. Understanding the eBook Fdm Code In Matlab
  - The Rise of Digital Reading Fdm Code In Matlab
  - Advantages of eBooks Over Traditional Books
2. Identifying Fdm Code In Matlab
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Fdm Code In Matlab
  - User-Friendly Interface
4. Exploring eBook Recommendations from Fdm Code In Matlab
  - Personalized Recommendations
  - Fdm Code In Matlab User Reviews and Ratings
  - Fdm Code In Matlab and Bestseller Lists
5. Accessing Fdm Code In Matlab Free and Paid eBooks

- Fdm Code In Matlab Public Domain eBooks
  - Fdm Code In Matlab eBook Subscription Services
  - Fdm Code In Matlab Budget-Friendly Options
6. Navigating Fdm Code In Matlab eBook Formats
- ePub, PDF, MOBI, and More
  - Fdm Code In Matlab Compatibility with Devices
  - Fdm Code In Matlab Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Fdm Code In Matlab
  - Highlighting and Note-Taking Fdm Code In Matlab
  - Interactive Elements Fdm Code In Matlab
8. Staying Engaged with Fdm Code In Matlab
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Fdm Code In Matlab
9. Balancing eBooks and Physical Books Fdm Code In Matlab
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Fdm Code In Matlab
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Fdm Code In Matlab
- Setting Reading Goals Fdm Code In Matlab
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fdm Code In Matlab
- Fact-Checking eBook Content of Fdm Code In Matlab
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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