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An Introduction

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Calculations and

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DESIGN AND

INSTALLATION IN

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Bonding
Methodology of
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Introduction to
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System and

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Equipment Design

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(13min:48sec)

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The Source of

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System and

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[250.4, 2020

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What is Ground?

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Ground/Earthing

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Earthing Systems

vs Electrical

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Difference

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JMV Maintenance

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Buildings Design
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Safety

Fundamentals (1h
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AEMC® -

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*Testing Earthing
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GSA_FD Tutorial

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Electromagnetic

Simulation How

~~To Install~~

~~Earthing System~~

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Electrical Design

Earthing Or

Grounding Grid

Using ETAP For

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Grid | what is

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The grounding system must ensure maximum safety from electrical system faults and lightning. A good grounding system must receive periodic inspection and maintenance, if needed, to

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retain its effectiveness!

Continued or

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earthing system

is to protect
life and

property in the
event of 50/60

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circuit) and

transient
phenomena

(lightning,
switching

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The design shall be in accordance with NEC and IEEE Std.1100 (Emerald Book) guidelines. 7.0 All underground or concrete encased electrode

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analysis, collection of geographic data, and soil resistance of the area.

Generally, the site engineer or equipment manufacturers specify a resistance to ground number.

The National

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Electric Code

states that the resistance to ground shall not exceed 25 ohms for a single electrode.

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SYSTEM DESIGN

AND INSTALLATION

IN 7 STEPS

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refers to the limit of the defined values the voltage has to the ground in every part of the electrical system. It connects the current-carrying point of the electrical system to the ground, i.e.,

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the neutral of
transformers and
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equipment as
well as lines.

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Technical ...~~

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must assure that system performs for the expected life of the installation and it must therefore take into account future additions and the maximum fault current for the ultimate configuration.

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Data Analysis.

Third Step:

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NEC, Article 250

Step#1: Field
Data Collection.
Step#2: Earthing
Grid Conductor
Sizing. Step#3:
Calculation Of
Tolerable Touch
And Step
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guidance on the design and calculation of ground electrodes.

The earthing system, sometimes simply called

'earthing', is the total set of measures used to connect an electrically conductive part

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to earth. The earthing system is an essential part of power networks at both high- and low-voltage levels. A good earthing system is required for:

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120v, etc.
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Lightning,

Static

Electricity, RF

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A grounding design starts with a site analysis, collection of geological data, and soil resistivity of the area.

Typically, the site engineer or equipment

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