

# Online Library IEEE Substation Guide

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Webinar - Substation  
The basics of a  
substation  
configuration and its  
components Steps  
involved in design of  
substation earthing  
grid as per IEEE

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## IEEE Substation

Standard 80 - 2000

How Do Substations  
Work? Extra High

Voltage substation  
grounding|grounding  
calculation|Touch

voltage|Step  
Voltage|GPR

Norway's first eco-  
efficient and fully  
digital GIS substation

345 kV Substation

Interlocks - Protecting  
Substation Equipment

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and YOU Substation  
Walkthrough 345kV to  
34.5kV How does a  
substation work?

Webinar - Electrical  
Safety in Substations

High Voltage

Electrical Substation

VR Training

Walkthrough | Oculus

Quest Electrical Grid

101 : All you need to  
know ! (With Quiz)

Webinar: Substations,

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Looking From  
Outside... In 345kV air-  
switch opening High  
Voltage 345 kV to 35  
kV Substation Control  
House Peak 500 kV  
Motor Operated  
Disconnect Switch  
(MOD).mp4 3D  
substation design  
What is Ground?  
Earth  
Ground/Earthing □□□□□□□□  
Awesome

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Disconnect

Switching with □

Electric Arc.

---

345 kV Transformer  
Issues?? Part 1 Three-  
Phase Power

Explained Electrical  
Substation Tour

Grounding and  
Bonding IEEE 3000  
Standards Collection □

for Industrial \u0026amp;  
Commercial Power  
Systems How to

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~~Publish~~ a Technical  
Paper with IEEE

---

IEEE Paper

presentation at Asian  
Institute of

Technology ~~2018~~

~~IEEE 1584 Update~~ □

~~Introduction to the~~

~~Changes~~ Rolling

Sphere Method of

Lightning Protection

and Shielding for

Substations per IEEE

Std. 998

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Understanding IEEE  
1584-2018 and the  
2017 NEC Article  
240.67, Arc Energy  
Reduction for Fuses 5  
of 7 System and  
Equipment Grounding  
(13min:48sec) ~~220kV~~  
~~/ 66 kV Electrical~~  
~~Substation All~~  
~~Explained | Live Tour~~  
IEEE Substation  
Guide  
IEEE 1246-2002 -

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IEEE Guide for  
Temporary Protective  
Grounding Systems  
Used in Substations.  
The design,  
performance, use,  
testing, and  
installation of  
temporary  
protective grounding  
systems, including the  
connection points, as  
used in permanent  
and mobile

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Guides, are  
covered in this guide.  
Superseded.

IEEE 80-2000 - IEEE  
Guide for Safety in  
AC Substation ...  
IEEE 979-1994 -  
IEEE Guide for  
Substation Fire  
Protection Guidance  
is provided to  
substation engineers  
in determining the

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design, equipment,  
and practices deemed  
necessary for the fire  
protection of  
substations.

IEEE 979-2012 -  
IEEE Guide for  
Substation Fire  
Protection

This guide is primarily  
concerned with  
outdoor ac  
substations, either

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Conventional or gas-insulated. These include distribution, transmission, and generating plant substations. With proper caution, the methods described herein are also applicable to indoor portions of such substations, or to substations that are wholly indoors. No

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Guide attempt is made to cover the grounding problems peculiar to dc ...

IEEE 80-2013 - IEEE  
Guide for Safety in  
AC Substation ...

IEEE Power  
Substations  
Standards Collection:  
VuSpec Summary.  
IEEE Power  
Substations

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Standards Collection  
included active  
standards covering  
switching stations,  
transformer stations,  
and generating station  
switchyards. IEEE  
Substations  
Standards Collection  
is a single source for  
design construction  
and operation of  
power substations.  
IEEE Substations

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Standards Collection  
contains 50 active  
IEEE Standards,  
Guides, and  
Recommended  
Practices, Errata &  
Interpretations for  
Power Substations, it  
...

IEEE Power  
Substations  
Standards Collection:  
VuSpec

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## IEEE C37.123-1996 - IEEE Guide to

Specifications for Gas-Insulated, Electric Power Substation Equipment. Technical requirements for the design, fabrication, testing, and installation of a gas-insulated substation (GIS) are provided. Parameters to be supplied by the

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purchase and the technical requirements for the design, fabrication, testing, and installation to be furnished by the manufacturer are discussed.

IEEE C37.122.1-1993  
- IEEE Guide for Gas-Insulated Substations  
(This introduction is

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Guide  
(not part of IEEE Std  
1402-2000, IEEE  
Guide for Electric  
Power Substation  
Physical and  
Electronic Security.)

This guide was  
revised by members  
of Working Group  
G3/Substation  
Security and is under  
the sponsorship of the  
Substations  
Environmental

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Subcommittee of the  
IEEE Power  
Engineering Society  
Substations  
Committee.

IEEE guide for electric  
power substation  
physical and ...  
bus and the strain  
(cable). This guide  
provides information  
on the different bus  
arrangements used in

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Substations stating the advantages and disadvantages of each. Also it provides information as related to each bus type and construction. Once the bus type is selected, this guide provides the calculation tools for each bus type.

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IEEE Guide for Bus  
Design in Air ...

The IEEE PES  
Substations

Committee is the professional home for engineers involved in the design and operation of electrical substations used for generation, transmission and distribution. Moreover, committee activities

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include development of not only industry standards, but also educational material, for instance, technical papers, white papers, presentations, tutorials and panel discussions.

IEEE PES  
Substations  
Committee -  
Professional

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Engineers ...

IEEE-SA Standards Board Abstract: The design, installation, and protection of wire and cable systems in substations are covered in this guide, with the objective of minimizing cable failures and their consequences.

IEEE Guide for the

*Page 24/40*

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## Design and

Installation of Cable ...

Abstract: This guide, covering three-phase ac systems from 1 kV to 800 kV, provides recommended electrical operating and safety clearances and insulation levels in air-insulated electric supply substations; addresses insulation

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## IEEE Substation Coordination

procedures; provides design procedures for the selection and coordination of the insulation levels within the station as they relate to substation ...

1427-2006 -

1427-2006 - IEEE

Guide for

Recommended ...

979-2012 - IEEE

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**Guide for Substation  
Fire Protection -  
Redline Abstract:**  
Guidance is provided  
to substation  
engineers in  
determining the  
design, equipment,  
and practices deemed  
necessary for the fire  
protection of  
substations.

979-2012 - 979-2012

*Page 27/40*

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~~IEEE~~ IEEE Guide for  
Substation Fire ...  
IEEE Guide for Gas-  
Insulated Substations  
Rated Above 52 kV:  
31 Dec 2024:  
C37.122.2-2011:  
WGK3: IEEE Guide  
for the Application of  
Gas-Insulated  
Substations 1 kV to  
52 kV: 31 Dec 2021:  
C37.122.3-2011:  
WGK4: IEEE Guide

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for Sulphur

Hexafluoride (SF<sub>6</sub>)

Gas Handling for High-

Voltage (over 1000

Vac) Equipment: 31

Dec 2021:

C37.122.4-2016:

WGK3\_TF1

Standards - IEEE

PES Substations

Committee

This IEEE substation  
guide, as one of the

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most operational  
sellers here will  
categorically be in the  
course of the best  
options to review.

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Gutenberg is a  
volunteer effort to  
create and share e-  
books online. No  
registration or fee is  
required, and books

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are available in ePub,  
Kindle ...

Substation Guide  
- [rmapi.youthmanual.com](http://rmapi.youthmanual.com)

This guide has been developed to address electric substation fire risk. The substation fire risk strategies in this document are based on industry standards and good

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practices. Lessons learned are incorporated from substation fires, research and testing, advancements in fire protection and environmental concerns.

P979 - Guide for  
Substation Fire  
Protection - IEEE SA  
The pretentiousness

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is by getting IEEE substation guide as one of the reading material. You can be correspondingly relieved to do it because it will find the money for more chances and bolster for progressive life. This is not by yourself nearly the perfections that we will offer.

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IEEE Substation Guide

- 1x1px.me

IEEE Guide for  
Electric Power  
Substation Physical  
and Electronic  
Security Abstract:  
Security issues  
related to human  
intrusion upon electric  
power supply  
substations are  
identified and  
discussed. Various

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Methods and techniques presently being used to mitigate human intrusions are also presented in this guide.

1402-2000 - IEEE  
Guide for Electric  
Power Substation ...  
80-2013 - IEEE Guide  
for Safety in AC  
Substation Grounding  
Abstract: This guide is

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primarily concerned with outdoor ac substations, either conventional or gas-insulated. These include distribution, transmission, and generating plant substations.

80-2013 - 80-2013 -  
IEEE Guide for Safety  
in AC Substation ...

This guide does not

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Consider the following:

- a) The electrical criteria for the selection of insulators (see IEEE Std 1313.2-1999TM [B22])
- b) The seismic forces to which the substation may be subjected (see IEEE Std 693TM-2005 and IEEE Std 1527TM-2006)
- c) The design of mounting

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Guides  
structures d) Design considerations for contaminated environments (see IEEE Std 1313.2-1999 [B22]) e) Installation ...

605-2008 - 605-2008  
- IEEE Guide for Bus Design in Air ...  
Guidance is provided to substation engineers in

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determining the design, equipment, and practices deemed necessary for the fire protection of substations. P979/D7, Jan 2011 - IEEE Draft Guide for Substation Fire Protection - IEEE Standard

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