

## BASIC POWER SYSTEMS



V = Volts = E

KVA = Kilo Voltamperes, apparent power as measured by product of (V) (A)

KW = Kilowatts, real consumed power

KVAR = Kilo Voltamps reactive, imaginary power

I = A = Amperes current flow

$\theta$  = Angle of power triangle  $\cos \theta = P.F.$

$$\cos \theta = P.F. = \text{power factor} = \frac{\text{Watts}}{\text{Volts} \times \text{Amperes}} = \frac{\text{KW}}{\text{KVA}}$$

### BASIC POWER EQUATIONS

$$\text{KW} = (\text{Volts}) (\text{Amperes}) (P.F.) / 1000 \text{ for } 1\phi$$

$$= (\text{KV}) (\text{Amperes}) (PF)$$

$$\text{KW} = (\text{Volts}) (\text{Amperes}) (P.F.) (\sqrt{3}) / 1000 \text{ for } 3\phi$$

$$= (\text{KV}) (\text{Amperes}) (PF) (\sqrt{3})$$

$$\text{KVA} = (\text{Volts}) (\text{Amperes}) / 1000 \text{ For } 1\phi$$

$$= (\text{KV}) (\text{Amperes}) (PF)$$

$$\text{KVA} = (\text{Volts}) (\text{Amperes}) (\sqrt{3}) / 1000 \text{ for } 3\phi$$

$$= (\text{KV}) (\text{Amperes}) (\sqrt{3})$$

I = Current Per Phase (Amperes) (A)

$$I = \frac{\text{KVA}}{\text{KV}} \text{ For } 1\phi, I = \frac{\text{KVA}}{\text{KV} \sqrt{3}} \text{ For } 3\phi$$

Normally, either KVA or current (I) amperes is given for loads to describe how much power is consumed.

Power factor = 1 for resistive loads such as Resistance Heaters, incandescent lights, stoves or other non-motorized equipment.

Power factor < 1 for all other inductive loads such as motors, transformers, reactors and capacitors.

$$\text{KVAR} = (\text{KVA})(\sin \theta)$$

# Basic Power Systems Fs Fed

**M Lipman**



## **Basic Power Systems Fs Fed:**

*Okanogan National Forest (N.F.), Wenatchee National Forest (N.F.), Methow Transmission Project* ,2006

**Proceedings of the 27th Intersociety Energy Conversion Engineering Conference** ,1992 **Commerce Business Daily** ,1998-11 Bibliography on Power System Stability--1965-1969 Institute of Electrical and Electronics Engineers,1971 *Railway Signaling and Communications* ,1961 *Guide to U.S. Government Publications* Thomson Gale,2005-08 *Intelec* ,1988 Typewriter Trade Journal and the Office System ,1923 **Proceedings of the IRE.** ,1962 Proceedings of the IRE. Institute of Radio Engineers,1962 **Annual Report of the Board of Governors of the Federal Reserve System Covering Operations for the Year ...** Board of Governors of the Federal Reserve System (U.S.),1922 International Railway Journal ,1976 **Communication and Electronics** ,1958 Transactions of the American Institute of Electrical Engineers American Institute of Electrical Engineers,1958 Index of current electrical literature Dec 1887 appended to v 5 *Government Reports Announcements & Index* ,1992-04 *Government Research Directory* ,2010 **Instruments & Control Systems** ,1961 *Dataquest* ,1995 International Index to Multi-media Information ,1975 **The Highway Engineer & Contractor** ,1923

## **Basic Power Systems Fs Fed** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Basic Power Systems Fs Fed**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://py.bijouxmedusa.com/public/detail/index.jsp/Margins%20Of%20Philosophy.pdf>

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