

## 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

**H Kauffman**



## **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

## Unveiling the Magic of Words: A Review of "**Basic Power Systems Fs Fed**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Basic Power Systems Fs Fed**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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