

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

θ = 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

**Board of Governors of the Federal
Reserve System (U.S.)**



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

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The book delves into Basic Power Systems Fs Fed. Basic Power Systems Fs Fed is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Basic Power Systems Fs Fed, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Basic Power Systems Fs Fed
- Chapter 2: Essential Elements of Basic Power Systems Fs Fed
- Chapter 3: Basic Power Systems Fs Fed in Everyday Life
- Chapter 4: Basic Power Systems Fs Fed in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Basic Power Systems Fs Fed. The first chapter will explore what Basic Power Systems Fs Fed is, why Basic Power Systems Fs Fed is vital, and how to effectively learn about Basic Power Systems Fs Fed.

3. In chapter 2, this book will delve into the foundational concepts of Basic Power Systems Fs Fed. This chapter will elucidate the essential principles that must be understood to grasp Basic Power Systems Fs Fed in its entirety.

4. In chapter 3, this book will examine the practical applications of Basic Power Systems Fs Fed in daily life. The third chapter will showcase real-world examples of how Basic Power Systems Fs Fed can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Basic Power Systems Fs Fed in specific contexts. The fourth chapter will explore how Basic Power Systems Fs Fed is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Basic Power Systems Fs Fed. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Basic Power Systems Fs Fed.

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