

1. Electric Power Systems

1. Your household electrical system has a circuit that is single phase and employs a voltage of 240 V, RMS. What can a circuit with a 50 A breaker handle?

- In Watts?
- A heater, rated in British Thermal Units/hour.

Solution:

$$240V \times 50A = 12,000W = 12kW$$
$$12kW \times 3,414BTU / kWh = 40,968BTU / h$$

2. What is the 'heat rate' (BTU/kWh) of a power plant with a net thermal efficiency of 36%?

Solution:

$$\frac{3414}{36} = 9483BTU / kWh$$

3. Using the data of Table 1.3, what is the amount of coal required for a power plant with a heat rate of 11,000 BTU/kWh to produce 1000 MW for a year?

Solution:

Assuming a 'year' to be 365.25 days \times 24 h/day = 8766 hours

$$10^6kW \times 8766h / year = 8.766 \times 10^9kWh / year$$

$$8.766 \times 10^9kWh / year \times 11,000BTU / kWh = 96.426 \times 10^{12}BTU / year$$

$$96.426 \times 10^{12}BTU / year \div 30,370BTU / kg = 3.129 \times 10^9kg / year = 3.129 \times 10^6tons / year$$

4. What is the carbon dioxide emission rate of a coal fired power plant with a heat rate of 9,500 BTU/kWh:

- Per hour if the rating of the plant is 600 MW?
- Per kWh?

Use the data contained in Table 1.3.

Solution:

$$600,000kW \times 9500BTU / kWh = 5.7 \times 10^9BTU / h = 5,700MBTU / h$$

$$5,700MBTU / h \times 95.9kgCO_2 / MBTU = 546,630 kg CO_2 / h$$

$$546,630kg CO_2 / h \div 600,000kW = .911kg CO_2 / kWh$$

5. What is the carbon dioxide emission rate of a natural gas fired power plant with a thermal efficiency of 53%?

- Per hour if the rating of the plant is 600 MW?
- Per kWh?

Electric Power Principles Kirtley Solution

Léo Pomar



Electric Power Principles Kirtley Solution:

Electric Power Principles Kirtley Solution 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 power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Electric Power Principles Kirtley Solution**," published by a very 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 into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Electric Power Principles Kirtley Solution

1. Understanding the eBook Electric Power Principles Kirtley Solution
 - The Rise of Digital Reading Electric Power Principles Kirtley Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Electric Power Principles Kirtley Solution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electric Power Principles Kirtley Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electric Power Principles Kirtley Solution
 - Personalized Recommendations
 - Electric Power Principles Kirtley Solution User Reviews and Ratings
 - Electric Power Principles Kirtley Solution and Bestseller Lists

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 - Electric Power Principles Kirtley Solution Budget-Friendly Options
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 - Electric Power Principles Kirtley Solution Compatibility with Devices
 - Electric Power Principles Kirtley Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electric Power Principles Kirtley Solution
 - Highlighting and Note-Taking Electric Power Principles Kirtley Solution
 - Interactive Elements Electric Power Principles Kirtley Solution
8. Staying Engaged with Electric Power Principles Kirtley Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electric Power Principles Kirtley Solution
9. Balancing eBooks and Physical Books Electric Power Principles Kirtley Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electric Power Principles Kirtley Solution
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electric Power Principles Kirtley Solution
 - Setting Reading Goals Electric Power Principles Kirtley Solution
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electric Power Principles Kirtley Solution
 - Fact-Checking eBook Content of Electric Power Principles Kirtley Solution
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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