

POWER UP: EXPLORING THE POWER FORMULA



Notes on Electric Power

Definition of Terms:

- Electric Power (P): The rate at which electric energy is transferred in an electric circuit. Unit: Watt (W).
- Current (I): The flow of electric charge. Unit: Ampere (A).
- Voltage (V): The potential difference between two points. Unit: Volt (V).

Formulas:

- Power (P) = Voltage (V) × Current (I)
- Power (P) = Current (I) × Voltage (V)
- Power (P) = Voltage (V) × Current (I)

Power and Applications

Electric power is the rate at which electric energy is transferred. It is measured in Watts (W). The power of an electrical device is the rate at which it uses electric energy. The power of a device is determined by the voltage across it and the current through it. The power of a device is given by the formula: $P = VI$. The power of a device is also given by the formula: $P = I^2R$. The power of a device is also given by the formula: $P = \frac{V^2}{R}$.

Power Up: Exploring the Power Formula

Problem	Formula	Plug-in Value	Answer/Unit
1. A circuit has a voltage of 120 V and a current of 5 A. Calculate the power.	$P = VI$	$P = (120 \text{ V})(5 \text{ A})$	600 W
2. A circuit has a voltage of 120 V and a power of 600 W. Calculate the current.	$P = VI$	$600 \text{ W} = (120 \text{ V})I$	5 A
3. A circuit has a current of 5 A and a power of 600 W. Calculate the voltage.	$P = VI$	$600 \text{ W} = I(5 \text{ A})$	120 V
4. A circuit has a voltage of 120 V and a resistance of 24 Ω. Calculate the power.	$P = \frac{V^2}{R}$	$P = \frac{(120 \text{ V})^2}{24 \Omega}$	600 W
5. A circuit has a current of 5 A and a resistance of 24 Ω. Calculate the power.	$P = I^2R$	$P = (5 \text{ A})^2(24 \Omega)$	600 W
6. A circuit has a voltage of 120 V and a power of 600 W. Calculate the resistance.	$P = \frac{V^2}{R}$	$600 \text{ W} = \frac{(120 \text{ V})^2}{R}$	24 Ω
7. A circuit has a current of 5 A and a power of 600 W. Calculate the resistance.	$P = I^2R$	$600 \text{ W} = (5 \text{ A})^2R$	24 Ω
8. A circuit has a voltage of 120 V and a resistance of 24 Ω. Calculate the current.	$P = \frac{V^2}{R}$	$600 \text{ W} = \frac{(120 \text{ V})^2}{24 \Omega}$	5 A
9. A circuit has a current of 5 A and a resistance of 24 Ω. Calculate the voltage.	$P = I^2R$	$600 \text{ W} = (5 \text{ A})^2(24 \Omega)$	120 V
10. A circuit has a voltage of 120 V and a power of 600 W. Calculate the current.	$P = \frac{V^2}{R}$	$600 \text{ W} = \frac{(120 \text{ V})^2}{24 \Omega}$	5 A
11. A circuit has a current of 5 A and a power of 600 W. Calculate the voltage.	$P = I^2R$	$600 \text{ W} = (5 \text{ A})^2(24 \Omega)$	120 V
12. A circuit has a voltage of 120 V and a resistance of 24 Ω. Calculate the power.	$P = \frac{V^2}{R}$	$P = \frac{(120 \text{ V})^2}{24 \Omega}$	600 W
13. A circuit has a current of 5 A and a resistance of 24 Ω. Calculate the power.	$P = I^2R$	$P = (5 \text{ A})^2(24 \Omega)$	600 W
14. A circuit has a voltage of 120 V and a power of 600 W. Calculate the resistance.	$P = \frac{V^2}{R}$	$600 \text{ W} = \frac{(120 \text{ V})^2}{R}$	24 Ω
15. A circuit has a current of 5 A and a power of 600 W. Calculate the resistance.	$P = I^2R$	$600 \text{ W} = (5 \text{ A})^2R$	24 Ω

Electric Power Problems
Physics Made Fun And Easy!



Electric Power Problems The Mathematical Challenge

James A. Momoh



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practical experimental results and commercial components and systems *Mathematical Modelling* Murray S.

Klamkin,1987-01-01 Mathematics of Computing Miscellaneous

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Optimal Coordination of Power Protective Devices with Illustrative Examples Ali R. Al-Roomi, 2021-12-14 Optimal Coordination of Power Protective Devices with Illustrative Examples Provides practical guidance on the coordination issue of power protective relays and fuses Protecting electrical power systems requires devices that isolate the components that are under fault while keeping the rest of the system stable Optimal Coordination of Power Protective Devices with Illustrative Examples provides a thorough introduction to the optimal coordination of power systems protection using fuses and protective relays Integrating fundamental theory and real world practice the text begins with an overview of power system protection and optimization followed by a systematic description of the essential steps in designing optimal coordinators using only directional overcurrent relays Subsequent chapters present mathematical formulations for solving many standard test systems and cover a variety of popular hybrid optimization schemes and their mechanisms The author also discusses a selection of advanced topics and extended applications including adaptive optimal coordination optimal coordination with multiple time current curves and optimally coordinating multiple types of protective devices Optimal Coordination of Power Protective Devices Covers fuses and overcurrent directional overcurrent and distance relays Explains the relation between fault current and operating time of protective relays Discusses performance and design criteria such as sensitivity speed and simplicity Includes an up to date literature review and a detailed overview of the fundamentals of power system protection Features numerous illustrative examples practical case studies and programs coded in MATLAB programming language Optimal Coordination of Power Protective Devices with Illustrative Examples is the perfect textbook for instructors in electric power system protection courses and a must have reference for protection engineers in power electric companies and for researchers and industry professionals specializing in power system protection **DOE/RA. ,1980 Mathematical Aspects of Vortex Dynamics** Russel E. Caflisch, 1989-01-01 Third International Conference on Mathematical and Numerical Aspects of Wave Propagation Gary C. Cohen, 1995-01-01 This volume contains the papers presented at the title conference Speakers from 13 different countries were represented at the meeting A broad range of topics in theoretical and applied wave propagation is covered

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