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$W = Pt$ $P = I^2 R = (5 \text{ A})^2 (47 \text{ } \Omega) = 1175 \text{ W}$ $t = W/1175 \text{ J} = 25 \text{ s} = 0.0213 \text{ s} = 21.3 \text{ ms}$ Section 4-2 Power in an Electric Circuit 17. $R_L = A^2 V^2 = I V = 37.5 \text{ } \Omega$ 18. $P = VI = (5.5 \text{ V})(3 \text{ mA}) = 16.5 \text{ mW}$ 19.

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The 8th edition of this acclaimed book provides practical coverage of electric circuits. Well-illustrated and clearly written, the book contains a design and page layout that enhances visual interest and ease of use. The organization provides a logical flow of subject matter and the pedagogical features assure maximum comprehension. Some key features include: "Symptom/Cause" problems, and exercises on Multisim circuits. Key terms glossary--Furnished at the end of each chapter. Vivid illustrations. Numerous examples in each chapter--Illustrate major concepts, theorems, and methods. This is a perfect reference for professionals with a career in electronics, engineering, technical sales, field service, industrial manufacturing, service shop repair, and/or technical writing.

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This text provides optional computer analysis exercises in selected examples, troubleshooting sections, & applications assignments. It uses frank explanations & limits maths to only what's needed for understanding electric circuits fundamentals.

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