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create a network with an equivalent resistance of 6.67 k $\Omega$ . What is the minimum number of required resistors? Design Exercise 1-2: Use network analysis and Ohm's Law to derive a formula for VOUT for an unloaded voltage divider.

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In this page, we introduced an important technique that allows us to conveniently perform circuit analysis in a way that accounts for the phase variations that occur in AC systems. In the next page, we'll explore the somewhat complicated task of calculating power when voltage and current are not in phase.

#### Phase Shift and Phasors - EE Power

Chapter 12.1 Chapter 12. Circuit Analysis and Design: A Basic Approach to Circuit Design 12.1 The Design Steps The basic approach to design that we take in this section was introduced by R Henke (Fluid Power Systems and Circuits, Hydraulics and Pneumatics, 1983). We have,

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