

Physics 116A Notes Fall 2004

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Draft v.0.9

- Notes Copyright 2004 David E. Pellett unless stated otherwise.
- References:
 - Text for course:
Fundamentals of Electrical Engineering, second edition, by Leonard S. Bobrow, published by Oxford University Press (1996)
 - Others as noted

Physics 116A, 10/22/04: Outline

- Phasors and examples
- Circuit relations work for phasor analysis too with $\mathbf{V} = \mathbf{IZ}$, e.g.,
 - KVL and KCL
 - Series and parallel impedances
 - * Implication for C's in series and parallel since $\mathbf{Z}_C = \frac{1}{j\omega C}$
 - Nodal and mesh analysis, superposition work as before for DC (but with \mathbf{Z} and phasors)
 - Thévenin equivalent, etc.
- Examples, (e.g., Text, Prob. 4.6, set up 4.17)
- AC power (introduction)