

88-220. Circuit Analysis

Learning Outcomes

Last Updated: May 25, 2018

(PDC180514-5.8.1)

Learning Outcomes 88-220 Circuit Analysis	Characteristics of a University of Windsor Graduate
<u>At the end of this course, the successful student will know and be able to:</u>	<u>A U of Windsor graduate will have the ability to demonstrate:</u>
Identify the concept of phasor; and apply it for the sinusoidal steady-state analysis of circuits.	A. the acquisition, application and integration of knowledge
Compute complex arithmetic, frequency responses, and perform parametric studies using modern engineering tools such as MATLAB and PSpice through a variety of analysis projects.	B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
Identify the concept of steady-state power and analyze circuits to make power calculations. Solve three-phase and magnetically coupled circuits Perform steady-state sinusoidal analysis of AC circuits using the same circuit analysis methods as used in DC circuits, instead using complex impedances and phasors. Determine complex power in AC circuits, including average power, reactive power, and power factor. Calculate any set of two-port parameters with circuit analysis	C. critical thinking and problem-solving skills
	D. literacy and numeracy skills
	E. responsible behavior to self, others and society
Improve their communicate skills effectively through weekly written reports and lab notebooks	F. interpersonal and communications skills
Work and collaborate in a team-based environment, accepting responsibility in the team	G. teamwork, and personal and group leadership skills
	H. creativity and aesthetic appreciation
	I. the ability and desire for continuous learning