Principles and Applications of Electrical Engineering 5th Edition Rizzoni Solutions Manual

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Chapter 1: Introduction to Electrical Engineering – Instructor Notes

Chapter 1 is introductory in nature, establishing some rationale for studying electrical engineering methods, even though the students' primary interest may lie in other areas. The material in this chapter should be included in every syllabus, and can typically be thoroughly covered in a single-day introductory lecture. Oftentimes, reading of this material is left up to the discretion of the student.

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Problem 1.1

Solution:

A few examples are:	
<u>Bathroom</u>	
	ventilation fan
	electric toothbrush
	hair dryer
	electric shaver
	electric heater fan
Kitchen	
	microwave fan
	microwave turntable
	mixer
	food processor
	blender
	coffee grinder
	garbage disposal
	ceiling fan
	electric clock
	exhaust fan
	refrigerator compressor
	dish washer
Utility Room	
	clothes washer
	dryer
	air conditioner
	furnace blower
	pump
Family Room	
	VCR drive
	cassette tape drive
	reel-to-reel tape drive
	record turntable drive
	computer fan
	treadmill
Miscellaneous	
	lawn tools
	power tools

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Problem 1.2

Solution:

Several examples are listed below for each system: a) A ship **Circuit Analysis** design of the ship's electrical system Electromagnetics radar Solid-State Electronics radio sonar **Electric Machines** pump elevator **Electric Power Systems** lighting generators **Digital Logic Circuits** elevator control **Computer Systems** navigation **Communication Systems** radio telephone **Electro-Optics** Morse light bridge displays Instrumentation compass speed indicator Control Systems rudder HVAC b) A Commercial Passenger Aircraft **Circuit Analysis** Design of the plane's electrical system Electromagnetics radar microwave oven Solid-State Electronics radio **Electric Machines** turbines fans **Electric Power Systems** lighting HVAC **Digital Logic Circuits** seat belts **Computer Systems** navigation

1.3

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Communication Systems radio telephone **Electro-Optics** cockpit displays Instrumentation compass air speed indicator inclinometer altimeter Control Systems rudder flaps c) Household Circuit Analysis design of the home's electrical system Electromagnetics microwave oven stereo speakers Solid-State Electronics television stereo VCR **Electric Machines** appliances power tools fans Electric Power Systems lighting HVAC receptacles **Digital Logic Circuits** clocks timers **Computer Systems** microwave oven programmable VCR **Communication Systems** telephone CB radio television radio **Electro-Optics** digital clocks Instrumentation electric meter Control Systems thermostat

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Problem 1.3

Solution:

Some examples are:

a) HVAC lighting office equipment

typewriter computer copy machine

clock stapler

shredder

b)

 b) conveyor punch press lighting ventilation drill press hoist lathe
c) power saw drill lighting

> elevator pump compressor

elevator

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