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▼ Resources



Complete Electronics Self-Teaching Guide with Projects by Earl Boysen, Harry Kybett.epub



attaway4thOCR.pdf



symbollibraryforppt.ppt



howToDrawSchematics.pdf



LRC.mp4



KnightSummaryCh20.pdf



KnightSummaryCh21.pdf



KnightSummaryCh22.pdf



KnightSummaryCh23.pdf



-  **KnightCh23Problems.pdf**  
-  **Matlab tip sheet**  
5 pts
-  **Arduino tip sheet**  
5 pts
-  **SolderingIronDirections.pdf**  

 ▶ Writing & Multiliteracy Center Info for Spring 2024 EMEC/PHYS 310 - Rasnow  
 

-  ▼ **Introduction**  
 
-  **EMEC-Phys 310 Syllabus Rasnow F2025.pdf**  
-  **Objectives**  
-  **1abToolbox.pdf**  
-  **1acMoreIntro.pdf**  

1. Introduction to electronics		
	m01b_studentIntro.pdf	
	m02_voltageAndCurrent.mlx	
	m02_voltageAndCurrent.pdf	
	soldering tips	
	Series and Parallel Jan 28 5 pts	
	Voltage and current Feb 1 5 pts	
	Voltage and Current Quiz Feb 6 8 pts	
	s2_DVM_Loading_Errors.mlx	
	s2_DVM_Loading_Errors.pdf	



▼ LED Nightlight



2ab DesignChallenge-CharacteristicCures.pdf



m03_LEDnightlight.mlx



Voltage divider equation

Feb 4 | 5 pts



Lab#1 LED nightlight

Feb 18, 2024



LEDNightLight.docx



LED Nightlight Quiz

Feb 11 | 10 pts



▼ LM317 power supply



m04_LM317.mlx



Q & A 3

Feb 14 | 5 pts





DC Power Supply Lab Report

Feb 17 | 100 pts



Quiz on Boysen & Kybett Ch. 1 and 2

Feb 16 | 6 pts



▼ Arduino and Automation



Arduino Serial Driver: To get your Arduino working:

<https://learn.sparkfun.com/tutorials/how-to-install-ch340-drivers/all>



4aAutomation.pdf



m05_AutomatedIVcurvesmlx



Q & A 4

Feb 20 | 5 pts



Here's another sample lab report.



Exploring Arduino Analog Input Resistance.pdf



Lab #3 Automated I-V curves

Mar 3, 2024 | 10 pts



	AutomatedIVcurvesLabReport.pdf		
	ivData20feb24.mat		
	▼ Transistors		
	transistorTheory2023.pdf		
	m06_TransistorGain.mlx		
	Q & A 5 Feb 27 5 pts		
	Lab 4 Transistor gain Mar 14 100 pts		
	TransistorCircuits,FET,switches.pdf		
	m07_TransistorSwitches.mlx		
	Boysen Ch 3-4 NPN Transistor Mar 11 6 pts		
	Transistors Aug 26, 2023 5 pts		

-  **TxMidtermExam(Practice).pdf**  
-  **txistorPSHWSoln.pdf**  
-  **▼ Arduino Meets Matlab**   
-  **m08_MatlabMeetsArduino.mlx**  
-  **Arduino Meets Matlab**
Sep 6, 2023 | 5 pts  
-  **Arduino Quiz**
Mar 24 | 7 pts  
-  **▼ Microphones, op amps, and AC voltages**   
-  **8a Capacitors & AC I. Theory22.pdf**  
-  **8b Capacitors & AC II. Simulation.pdf**  
-  **7 OpAmps.pdf**  



Oscilloscope Lab (MicOpAmpsSpectra lab)

Mar 30 | 100 pts



m09_OpAmpsSpectra.mlx



▼ Capacitors, PWM, & AC



8c Capacitors & AC III. PWM filter.pdf



Boysen Chapters 5-6 Quiz

Apr 14 | 11 pts



m10_PWMFiltering.mlx



▼ Arduino controlled DC power supply



m11_ArduinoControlledLM317.mlx



m12_ModelingLM317Controller.mlx



Q & A

Apr 15 | 5 pts





Arduino Controlled DC Power Supply

Apr 21 | 100 pts



▼ Function generator



m13_FunctionGeneratormlx



Oscilloscope_Fundamentals_Poster_3GW_60028_11x17 (1).pdf



Q & A -- International Experience

Apr 28 | 5 pts



m14_FourierDeskewingmlx



arddeskew.m



oscope3.m



m15_AutomatedFGenmlx



▼ Bode plot and Review



-  **m16_BodePlot.mlx** (✓) ⋮
-  **ch6SelfTest.mlx** (✓) ⋮
-  **Bode Plot**
May 12, 2024 (✗) ⋮
-  **Resonance.mlx** (✓) ⋮
-  **stochasticResonance.mlx** (✓) ⋮
-  **LabReviews.pdf** (✓) ⋮
-  **310 Concept Matrix-4.xlsx** (✓) ⋮
-  **16Review.pdf** (✓) ⋮
-  **Finals** (✓) ⋮
-  **16Review.pdf** (✓) ⋮
-  **Final Exam**
May 12 | 24 pts (✓) ⋮



Self Assessment

May 12 | 3 pts



Portfolio

May 16 | 100 pts

