

Physics 315

Winter-2002
Room SB1 201
M & W 13:00-15:50 PM
<http://www.physics.pdx.edu/~larosaa/>

Dr. Andres La Rosa
Office: SB2-Room 418 Ph:725-8397
Office Hours: F: 12:30-2:20 PM
andres@pdx.edu

Text: Laboratory notes will be distributed in class

Grading: Lab notebook 30%
Good presentation expected: clear, readable, neat
Each report reflecting student's understanding of the experiment (broken down into sections: abstract, procedure, conclusions, ...) Students develop skills to report scientific results.

Work performance during laboratory session 30%
Good record attendance during official time meeting
Positive attitude to complete tasks
Follow guideline to prevent equipment damage (i. e. make sure power supplies are in its lowest output values before turning them on)
Estimate the precision of the equipment used.

Report write-ups 40%
Out of the 10 experiments listed below, we will require write-up papers of 3 selected experiments.
A write-up paper sample will be provided in class (use it as a guidance.)

List of experiments

Week	#Lab Topic	#Lab Completed	Write-ups turned in
1	#11 Series Resonance	11	
2	#12 Parallel Resonance Circuit	12, start 13	
	#13 A. C. Bridge Measurement		
3	#14 Transistor amplifiers	14	#12
4	#15 Operational Amplifiers and Feedback	15	#13
5	#16 Differential Amplifiers and Voltage Regulation	16	
6	#17 Positive Feedback and Oscillators	17	
7	#18 The Radio	18	
8, 9	#19 Analog to Digital Conversion using Dual-Slope	19	#17
10,11	#20 Digital to Analogue Conversion	20	