



30	<i>Communication</i>
–	IEEE single column, double spaced format, title, author, etc. (–20 pts if not used)
5	Style (written in the style of article, rather than disjointed figures and tables)
5	English (grammar, punctuation, and etc.)
5	Clarity (purpose of each section clearly explained)
3	Succinctness and precise wording (detailed information in as few words as possible)
3	Organization (ease of locating figures/code/equations/etc.)
3	Section numbers and headings (use section numbers shown below)
3	Equations explained (at least one sentence between equations)
3	Figures complete (every figure numbered, captioned, and referred to in text)
4	<i>Abstract</i> (succinct summary of results, including numerical values as appropriate)
4	I. INTRODUCTION
3	Motivation for lab [create oscillator circuit, measure tissue impedance, determine tissue type]
1	State report organization [briefly describe contents of sections that follow]
22	II. WEIN-BRIDGE OSCILLATOR (Lab 3 Section IV)
	A. <i>Circuit Operation</i>
1	Introduction of section [purpose is to explain Wein-bridge oscillator circuit; include Fig. 4]
4	Explain operation of Wein-bridge oscillator circuit
	B. <i>Derivation of Equations Governing Oscillation</i>
8	Derivation of Equation (1)
2	Derivation of equation for frequency of oscillation, ω_0
	C. <i>Calculated and Measured Waveform</i>
4	Calculated R_1 value and other components used
3	Describe experiment with measured v_0 [include Matlab plot from IV.C.5]
20	III. TISSUE IMPEDANCE MEASUREMENT (Lab 3 Section V)
	A. <i>Circuit Configuration</i>
1	Introduction of section [purpose is to explain tissue impedance measurement; include Fig. 5]
4	Explain use of voltage divider to identify R_t and C_c [explain at a high level; include Fig. 3]
	B. <i>Measured Waveforms and Calculated R_t and C_c</i>
8	Derivation of formulas for R_t and C_c as function of V_0 and V_1
3	Measured v_0 and v_1 [include Matlab plot from V.C.2]
2	Calculated values of V_0 and V_1 from measured v_0 and v_1
2	Calculated values of R_t and C_c
15	IV. TISSUE PARAMETERS AND PUBLISHED TISSUE DATA (Lab 3 Section VI)
	A. <i>Conductivity, Relative Permeability, and Power</i>
1	Introduction of section [purpose is to compare measured tissue impedance with published data to determine tissue type, if possible]
3	Calculated value of σ
3	Calculated value of ϵ_r
3	Calculated value of S
	B. <i>Comparison of Measured and Published Values</i>
3	Table III
1	Comment on apparent composition of measured biceps tissue
1	Comment on safety of S versus published FDA limit
4	CONCLUSION (summarize key results; include numerical values as appropriate)
1	REFERENCES (list citations for published data)