

ERRATA for
PE Electrical and Computer: Electronics, Controls, and Communications Practice Exam

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Revisions are shown in red.

Question 42, p. 36:

The question should read as follows:

The following circuit is proposed for measuring and displaying temperature. The required temperature range of the overall circuit is -100.1°C to 100.1°C with a required resolution of 0.1°C .

Solution 24, p. 80

The solution should read as follows:

$$f_{\max} = 10 \text{ Hz} \quad V_{\text{peak}} = 5 \text{ V}$$

$$V_{\text{in}} = 5 \sin 62.8 t$$

$$\frac{dV}{dt} = 314 \cos 62.8 t$$

$$\left. \frac{dV}{dt} \right|_{\max} = \left. \frac{dV}{dt} \right|_{t=0} = 314 \cos 62.8 t \Big|_{t=0}$$

$$\left. \frac{dV}{dt} \right|_{\max} = 314$$

$$\Delta V_{\max} = \left. \frac{dV}{dt} \right|_{\max} \times 0.01$$

$$\Delta V_{\max} = (314)(0.01) = 3.14 \text{ V}$$

Solution 55, p. 88

The solution should read as follows:

The shorted stub should provide an input susceptance of $-j0.04 \text{ S}$. **The normalized input admittance of the shorted stub is given by**