



## Example 1

The e.m.f. in a thermocouple with the test junction at  $t$  °C on gas thermometer scale and reference junction at Ice Point is given by;

$$\epsilon = 0.20 t - 5 \times 10^{-4} t^2 \text{ mV}$$

The millivoltmeter is calibrated at Ice and Steam Points. What will this thermocouple read when the gas thermometer reads 50 °C ?

At Ice Point, when  $t = 0$  °C,  $\epsilon = 0$  mV.

At Steam point, when  $t = 100$  °C,

$$\begin{aligned}\epsilon &= 0.20 \times 100 - 5 \times 10^{-4} \times (100)^2 \\ &= 15 \text{ mV}\end{aligned}$$

$$\begin{aligned}\text{At } t = 50 \text{ °C,} \quad \epsilon &= 0.20 \times 50 - 5 \times 10^{-4} \times (50)^2 \\ &= 8.75 \text{ mV}\end{aligned}$$

Thus,  $\Delta T = 100$  °C  $\rightarrow \Delta \epsilon = 15$  mV.

Hence, when gas thermometer reads 50 °C (corresponding to 8.75 mV); the thermocouple will read;

$$\frac{100}{15} \times 8.75 = 58.33 \text{ °C} \text{ \textcolor{green}{---ANS}}$$

# Thermodynamic Example Problems

**William Z. Black, James G. Hartley**



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transformations The book also features more than 50 new end of chapter problems and more than 50 new figures

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**Thermodynamics and the Design, Analysis, and Improvement of Energy Systems, 1992**

American Society of Mechanical Engineers. Winter Annual Meeting,1992 Problems in Applied Thermodynamics Colin

Bodsworth,A. S. Appleton,1965 **Notes on Elementary Thermodynamics** Theodore Howard Taft,1926 Interactive

Thermodynamics V1.5 with User's Manual Michael J. Moran,Howard N. Shapiro,Intellipro, Inc.,Ron M. Nelson,1998-08-13

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*Problems for the Environmental Engineering PE Exam* Michael R. Lindeburg,2001 The environmental PE exam is growing in popularity as more engineers seek licensing in this discipline This eight hour open book exam offered every April and

October consists of 80 multiple choice problems Our Environmental Engineering Reference Manual is the core text examinees need to prepare for and use during the exam It reviews the current exam topics clearly and concisely and is replete with examples and practice problems reinforcing important concepts Complete solutions to these problems are found in the Practice Problems book which examinees can use to learn or refresh solving skills Step by step solutions to all the practice problems in the Environmental Engineering Reference Manual      **Fundamentals of Engineering**

**Thermodynamics** John R. Howell, Richard O. Buckius, 1992      *Thermodynamics* William Z. Black, James G. Hartley, 1996  
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