

### 7B-3 : Entropy Change of an Isobaric Process

6 pts

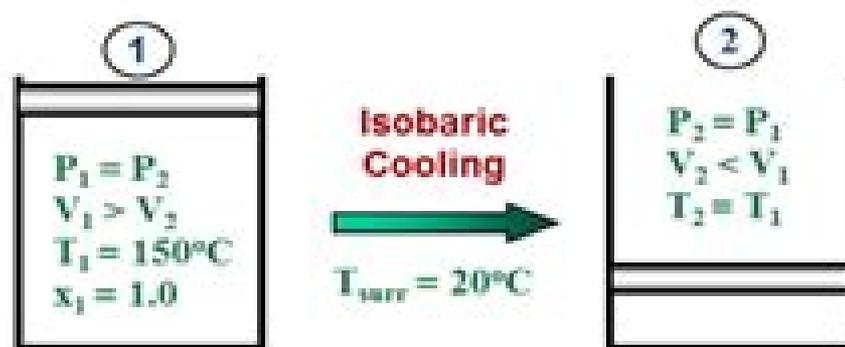
A piston-and-cylinder device with a free-floating piston contains 2.6 kg of saturated water vapor at 150°C. The water loses heat to the surroundings until the cylinder contains saturated liquid water.

The surroundings are at 20°C. Calculate... a.)  $\Delta S_{\text{water}}$ , b.)  $\Delta S_{\text{surroundings}}$ , c.)  $\Delta S_{\text{universe}}$

**Read :** Calculating  $\Delta S$  for the water in the cylinder is straightforward. The key to calculating  $\Delta S_{\text{surr}}$  is the fact that the surroundings behave as a thermal reservoir. The temperature of the surroundings does not change and there are no irreversibilities in the surroundings that are associated with the process. The key to calculating  $\Delta S_{\text{univ}}$  is the fact that the universe is made up of the combination of the system and the surroundings. Consequently,  $\Delta S_{\text{univ}} = \Delta S_{\text{sys}} + \Delta S_{\text{surr}}$ .

<b>Given:</b>	$m$	2.60	kg	<b>Find:</b>	$\Delta S_{\text{sys}}$	???	kJ/K
	$T_1$	150	°C		$\Delta S_{\text{surr}}$	???	kJ/K
	$x_1$	1	kg vap/kg		$\Delta S_{\text{univ}}$	???	kJ/K
	$T_{\text{surr}}$	20	°C				
	$P_1 = P_2$						
	$x_2$	0	kg vap/kg				

**Diagram:**



- Assumptions:**
1. Changes in kinetic and potential energies are negligible.
  2. Boundary work is the only form of work that crosses the system boundary.
  3. The surroundings behave as a thermal reservoir.

# Entropy Problems And Solutions

**Nobuyuki Kenmochi**



## **Entropy Problems And Solutions:**

## Whispering the Techniques of Language: An Emotional Journey through **Entropy Problems And Solutions**

In a digitally-driven world wherever screens reign supreme and instant interaction drowns out the subtleties of language, the profound secrets and mental nuances hidden within phrases often move unheard. Yet, nestled within the pages of **Entropy Problems And Solutions** a captivating literary prize pulsating with organic emotions, lies an exceptional quest waiting to be undertaken. Written by a skilled wordsmith, this wonderful opus attracts visitors on an introspective trip, gently unraveling the veiled truths and profound impact resonating within the very material of each and every word. Within the emotional depths of this poignant review, we shall embark upon a honest exploration of the book is primary subjects, dissect their fascinating writing model, and fail to the effective resonance it evokes serious within the recesses of readers hearts.

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