

Quiz #3

MEMS 0051 - Introduction to Thermodynamics

Assigned: June 4th, 2020

Due: June 5th, 2020, 11:59 pm

Problem #1

A piston-cylinder device contains 1 [kg] of water with a quality of $x = 1$ at a pressure of 1000 [kPa]. The water is now compressed isobarically until it becomes a saturated liquid. Determine the following:

- the polytropic index, n , of the process;
- the work performed during the process;

Academic Integrity Statement:

I hereby attest that I have received no assistance (from a friend, from another student, from an on-line resource, such as Chegg, etc.), and that I have provided no assistance to another student, during this examination. All the work presented within is solely my own work.

Signature: _____

Date: _____