Assignment 12

The due date for submitting this assignment has passed. 
As per our records you have not submitted this assignment.

Due on 2020-04-22, 23:59 IST.

1) A tank containing 100 kg of a 60% brine (60% salt) is filled with a 10% salt solution at the rate of 10 kg/min. Solution is removed from the tank at the rate of 15 kg/min. Assuming complete mixing, find the kilograms of salt in the tank after 10 minutes

   kg of salt in the tank = _______ kg

No, the answer is incorrect.
Score: 0
Accepted Answers: 
(Type: Range) 6.5,6.9

5 points

2) A defective tank of 1500 ft³ volume containing 100% propane gas (at 1 atm) is to be flushed with air (at 1 atm) until the propane concentration reduced to less than 1%. At that concentration of propane the defect can be repaired by welding. If the flow rate of air into the tank is 30 ft³/min, for how many minutes must the tank be flushed out? Assume that the flushing operation is conducted so that the gas in the tank is well mixed

   t = _______ min

No, the answer is incorrect.
Score: 0
Accepted Answers: 
(Type: Range) 226,232

5 points