King Abdulaziz University Faculty of Engineering Mechanical Engineering

MEP 460 Heat Exchanger Design Spring 2022 HW. # 03

Homework on boiling and condensation, Ch. 10 of Incropera 7th Edition textbook

Problem	Modification	Remarks
10.49a	Change the condensate rate to 30 kg/hr	
10.58 &	Change the steam pressure from 0.2 bar to 0.3327 bar	
10.59	Change the surface temperature in problem 10.58 and 10.59 to 27°C	
10.61a	Change the steam pressure from 0.1 bar to 0.1351 bar	
10.41a,b	Change the velocity from 0.05 m/s to 0.1 m/s	
10.67	Change the inlet saturated steam pressure from 1.5 bar to 2.1245 bar	
10.68a	Change the inlet saturated steam pressure from 1.5 bar to 2.1245 bar	