

QUESTION 78

A steam power plant operates at a maximum pressure of 500 psia and a low pressure value of 14.7 psia. 50 lbm/hr of the steam is extracted from the turbine at 50 psia and is directed to the open feedwater heater. The maximum temperature is 1000 F. 510 lbm/hr is directed to the condenser. The temperature of the condensate at point 7 is 130 F. What is the resulting temperature at point 1.



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