

Chapter10_example3

The heat transferred per unit area is 3.19×10^5 W/sq.m

The area of the pan inside-bottom surface in contact with liquid is 1.56×10^{-2} sq.m

Solution to part (a)

The power delivered to the water is 4.98 kW

Solution to part (b)

The water evaporation rate is 2.21×10^{-3} kg/s = 7.94 kg/hr

Solution to part (c)

The critical heat flux is 1.52×10^6 W/sq.m