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1.31 A saw design of an electric water brains for a house is being analyzed. The brains is to consist of a length of tubing wrapped with an electrical conducting tape, which in turn is well insulated. When electric current passes through the tape, it heats the tube, which heats the water inside. The system is set up tuch that faulting excurs only when water flows through the tube. The tester dismeter of the tube is 20 mm, and the tube length is 3 m. The convection coefficient between the tube and water is 1 000 W / to '-80, which is an average over the 3 m length, luned in an effective transportation of 340 K (assumed curretaint).

(a) Determine the heat transferred to the water, and the downstream temperature of the teater if the average water velocity is 1.2 m/s and its density is 1 000 kg/ind. (b) If the voltage applied to the heater is 120 V, will a 15-A fees be sufficient in the electrical line? Take the initial water temperature to be 20°C, and the specific heat of water to be 4.2 kJ/fkg/Kt.

Sushing bridge

```
D = 20 \text{ mass} = 0.02 \text{ ms}; \quad L = 3 \text{ ms}; \quad A_c = 1.000 \text{ W./(m/s/K)}; \quad AP = 340 \text{ K}; \quad V = 1.2 \text{ ms/s}; \quad \mu = 0.000 \text{ kg/ms}; \quad a_{\mu} = 4.200 \text{ J./(kg/s/s)}; \quad a_{\mu} = 4.200 \text{ J./(kg/s)}; \quad a_{\mu} = 4.200 \text{ J./(kg/s/s)}; \quad a_{\mu} = 4.200 \text{ J./(kg/s
```

 $q=\sin_{q}(T_{i}-T_{i})$, where $T_{i}=$ final water temperature downstream, and $T_{i}=20^{\circ}C=$ the initial mater temperature.

 $de = \rho A V$ to have $A = extens sectional size = <math>\rho DV/A$; in all

six = 1 0000x00.003² / 10(1.2) = 0.377 kg/s. Substituting.

8.4 × 30° - 9.37714 2000 To - 200; nobelous.

Ty = 60.5°C 120 V a 13 A = 1 800 W: 15 A is too small.

1.32 One way of using store-borner heat to heat a kitchen offertively that confy) is to stillize a lost plate. Consider a lighted gas burner. Heat is transferred from the flame to the surroundings by selast models) of heat transfer? Suppose a lost plate consisting of cast tron with a 6-in diameter is plated over the burner. The plate absorbs a significant fraction of the energy from the flame and, in turn, the plate subsorbs heat in all directions. It is observed that use of the lost plate beats, the surrounding rooms (kinchen) very well compared to the burner alone.

Contribler a fact plate every a burner. The flame temperature is 1800°F. The corrective heat transfer swelffulent between the rising exhaust gazes and the plate is 35 BTU/the dr'-R). The plate transfers heat to the surroundings primarily by radiation. Determine the equilibrium temperature of the plate, assuming the numeroundings in he at 63°F and to behave as a black leady. The plate surface has r = 0.0.

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