

Chapter7_example7

The transition length is 18.1 cm

The transition thus occur at 5th heater

The convective coefficient for heater no. 1 is 164 W/(sq.m.K)

The heat transferred by heater no. 1 is 210 W

The convective coefficient for heater no. 2 is 116 W/(sq.m.K)

The heat transferred by heater no. 2 is 87 W

The convective coefficient for heater no. 3 is 95 W/(sq.m.K)

The heat transferred by heater no. 3 is 66 W

The convective coefficient for heater no. 4 is 82 W/(sq.m.K)

The heat transferred by heater no. 4 is 56 W

The Reynolds number for heater no. 5 is 5.54e+05

The convective coefficient for heater no. 5 is 86.7 W/(sq.m.K)

The heat transferred by heater no. 5 is 133 W

The Reynolds number for heater no. 6 is 6.65e+05

The convective coefficient for heater no. 6 is 99.7 W/(sq.m.K)

The heat transferred by heater no. 6 is 211 W