## Chapter4\_example3

The value of diffusivity is 2.55e-06 sq.m/s

The Biot number is 5.76,

Since value of Biot number is greater than 0.1, Lumped capacity appro ach would not give accurate results, so figure 4.6 is to be used

The required time is 9022 s = 2.5 hr

The choosen values of x/L are:

0. 0.2 0.4 0.6 0.8 0.9 1.

Values for dimensionless temperature for corresponding values of x/L:

1. 0.97 0.86 0.68 0.48 0.36 0.24

the temperature profile with distance is

x/L	0.00	0.20	0.40	0.60	0.80	0.90	1.00
(T-T_inf)/T_i-T_inf)	1.00	0.97	0.86	0.68	0.48	0.36	0.24
x,cm	0.0	4.8	9.6	14.4	19.2	21.6	24.0
T, degree celsius	150	163	213	294	384	438	492