

Q.5 cont.

(c) To find out how long steady state conditions takes to occur it is necessary to increase the time increment on the spread sheet and iterate it until there is no significant change in temperature within the wall with time.

We can do this because the implicit method is basically stable.

If we increase the time increment to 12,000 s it can be seen that steady state conditions are reached after approximately 100 hours i.e. about 4 days !