Week3\_sconde

1)

Given:

Assuming one dimensional heat transfer and disregarding radiation, determine the rate of heat transfer through the wall.

**\*Foam**

**\*Plaster**

**\*Brick**

\***Heat transfer rate**:

Answer:

|  |  |  |
| --- | --- | --- |
|  | Wood | Insulation |
| Outside Air | 0.03 | 0.03 |
| Wood Bevel(13mm\*200mm) | 0.14 | 0.14 |
| Polywood(13mm) | 0.11 | 0.11 |
| Urethane Rigif Foam Ins.(90mm) | No | 0.98\*90/25=3.528 |
| Wood Studs(90mm) | 0.63 | No |
| Gypsum Board(13mm) | 0.079 | 0.079 |
| Inside Surface | 0.12 | 0.12 |