

Week 7

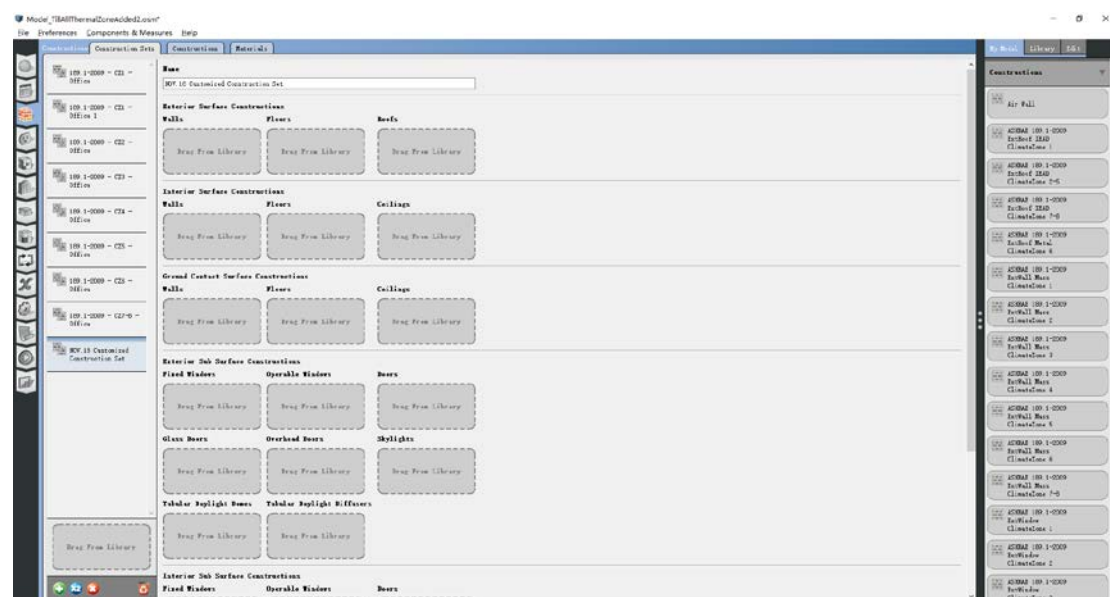
Task 1: Provide a summary of the main concepts that went through about solar radiation (formulas are not needed)

Solar radiation is electromagnetic energy emitted by the sun. When the sun is radiating energy, some of it is transmitted, and other is absorbed or scattered. Directly of the solar radiation (also known as direct iridescence) is the radiation that maintained the direction of incidence. Solar radiation absorption is due to some atmospheric components which absorb the incident radiation in specific wavelength bands which modifies its energetic spectrum.

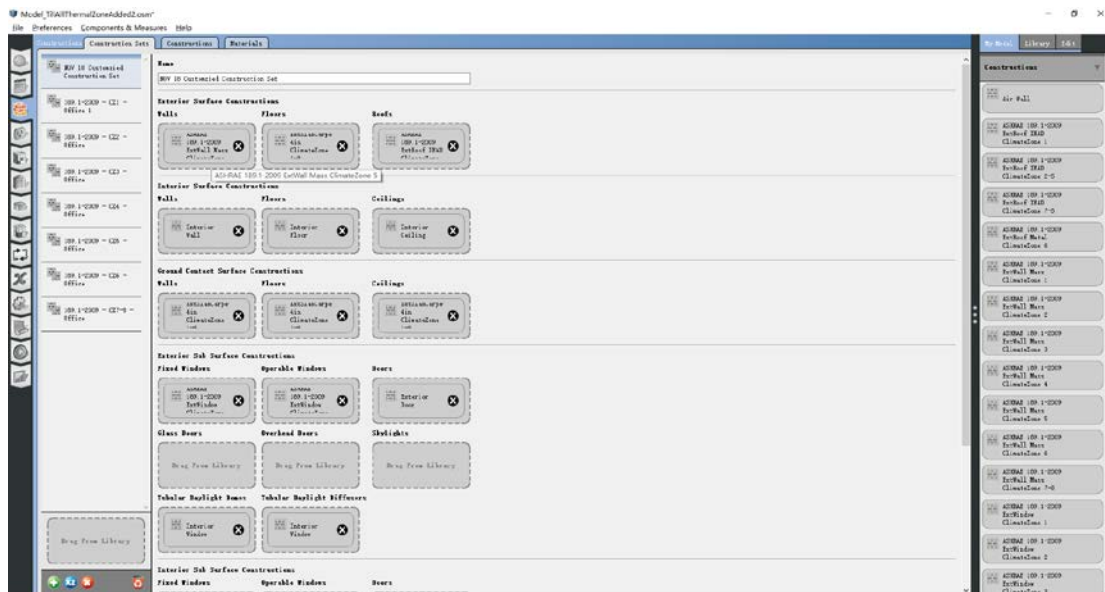
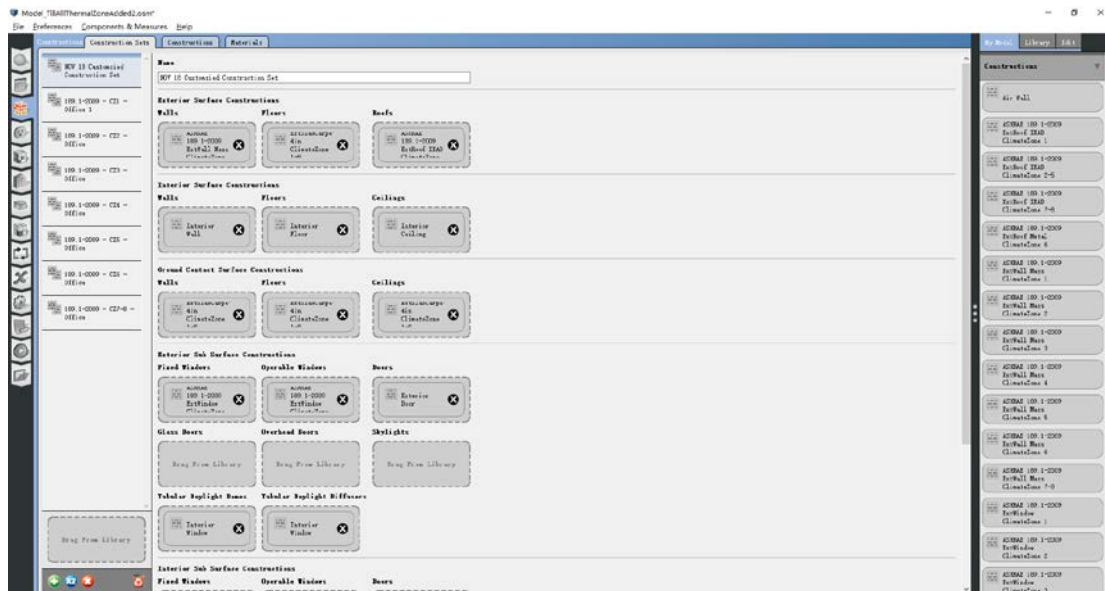
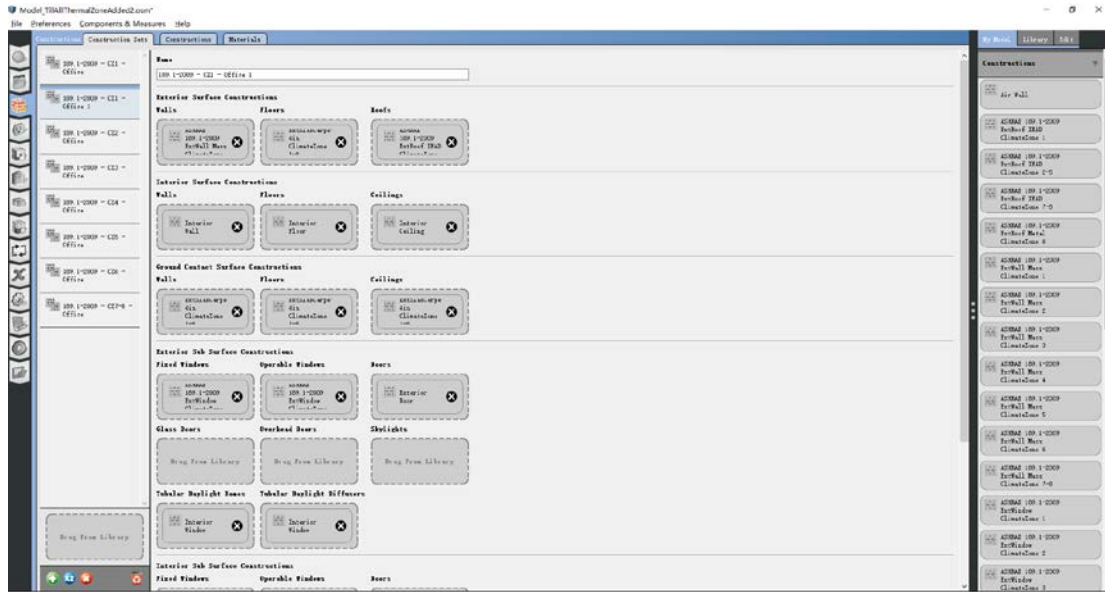
When the sun is perpendicular to the plan of the horizon, it crosses the minimum thickness of the atmosphere. And the sun is at an angle it crosses a large thickness of the atmosphere. Solar radiation available on the Earth's surface for conversion.

Task 2: Create a pdf file with screenshots of all of the steps we went through in the second lesson on openStudio and explain briefly the reason behind the use of each step (in your own words!)

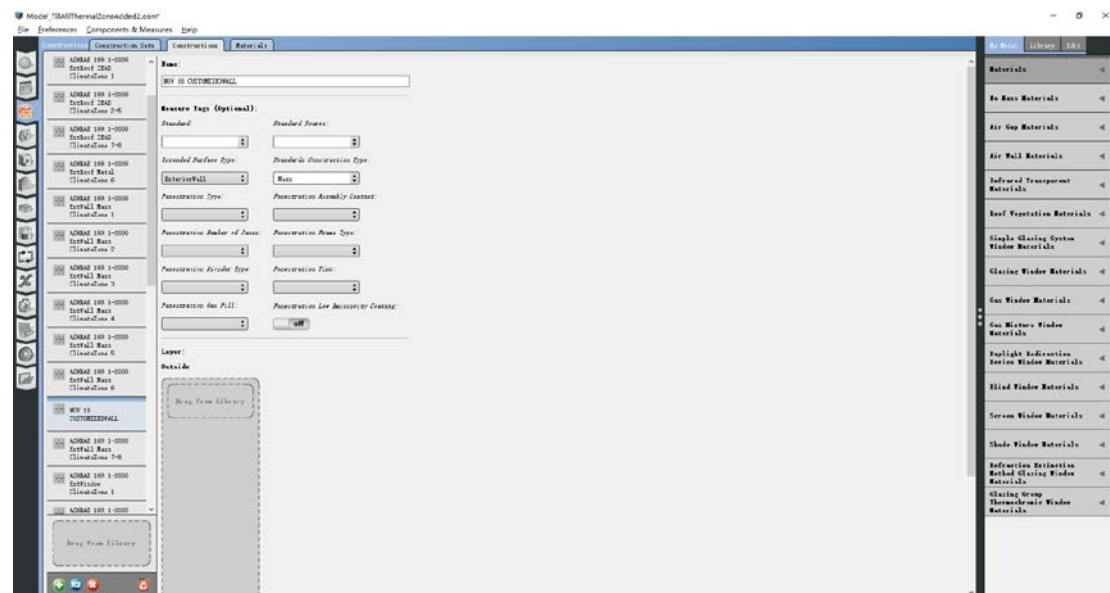
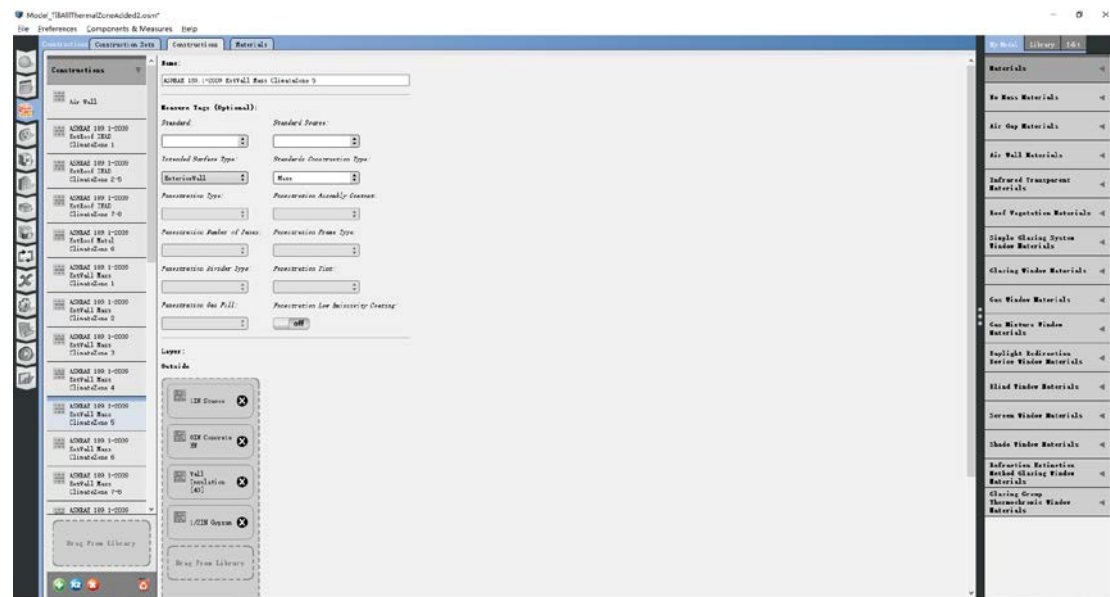
Firstly create a customized construction, we need to duplicate a construction.



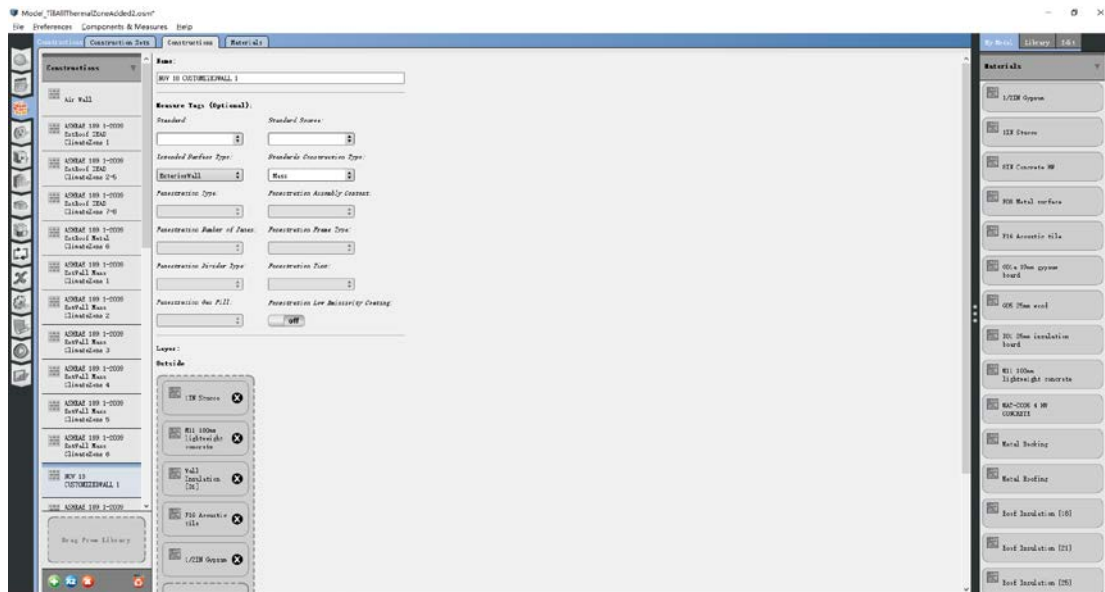
Rename.



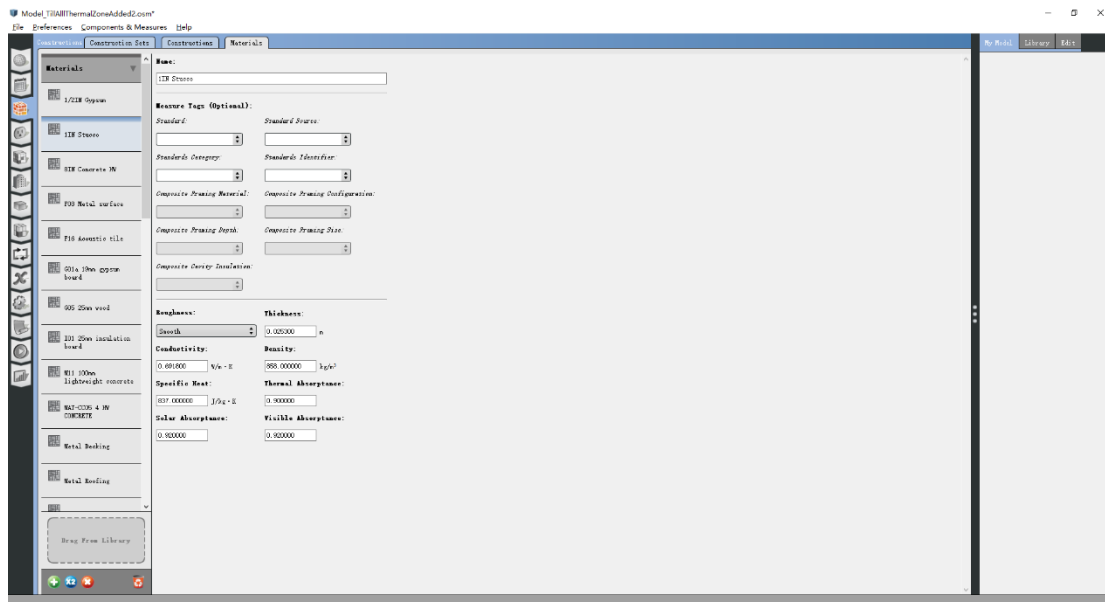
Change the material of ExtWall.



Go to the construction tab and duplicate the existing one, remove the existing material.



Check the existing materials' properties in material tab and define new materials.



Change the thickness and other properties use the new material

