

Test 1 Reflection

For the first test one of the most crucial first steps in solving anything with a complex shape is shape factor equation. The figure we used was complex system, It had 2 cover plates and a platen with a channel inside and later for the test we would attach fins to the system. I picked the wrong shape factor in the begging, instead of picking case 6 I picked case 2 and it gave me the wrong shape factor (S) and therefore the rest of my results were off numerically but not by much.

If I would give myself a B for the test. Numerically my answers were not correct but it was because of the shape factor confusion I had. But shape factor is important for any kind of heat transfer problem. Heat transfer in general is a very important topic for any mechanical engineering major. The test was very challenging especially adding the fins to the problem, which is a positive thing because having a challenging test will always help you for future test.