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MET 440

Exam 2 Reflection

For this exam, we were to solve steady one-dimensional heat conduction problems, multi-dimensional heat conduction problems, and unsteady heat conduction problems, explain the physical meaning of dimensionless parameters and their relation to different heat transfer problems and solve simple convection heat transfer problems.

In my solution, many of my steps matched the solution provided. I made simple mistakes, such as forgetting to carry the negative sign when finding the heat transfer equation for $r=b$. I also failed to confirm the units for the integration.

Based on this, I would give myself a B+.

For this test, I learned how to use ComSol. The program helped to confirm my work's correctness. The use of integration was also very important for this exam. Engineers will most likely use this to analyze designs and confirm their own work. I believe I will use these skills in the field in terms of design and analysis. It is important for my professional career as it will serve as a way to check myself. It will also provide a way to demonstrate the knowledge I have gained from this class. I have yet to apply these skills in other courses. I have improved on the use of integration and analyzing differential equations. This course's content will most likely intersect with a career in HVAC or design.