

MAE 3195, Credit Sheet 16

Surface Modeling / Welded Tubes

Work through the tutorial on modeling structures made of welded tubes. Name your a-arm part “***-a_arm.prt”.

After completing the tutorial, answer the following questions and bring this Credit Sheet with you to class on the due date.

Review Questions

1. What is the volume of a swept surface?
2. Describe how datum curves were used as references in building the model of the a-arm.
3. Describe what happens to the features in the model tree when you merge two surfaces.
4. On the back of this sheet, draw a tree-structure that illustrates the parent-child relationship of all the features in your model.
5. Is it possible to suppress all of the surfaces and solid features to leave only the datum curves in your model?