

LabNotebook

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1 Introduction

This day our group imaged the surface fracture of our tension test samples.

1.1 Goals

The goal was to find data about the fracture patterns of each material.

2 Purpose

New insight and conclusions can be made after analyzing this additional data.

3 Setup

The samples for imaging were the samples left over from the previous tension testing.

3.1 Materials

1018 Steel as received, 1018 Steel annealed, 6061 Al as received, 6061 Al annealed.

3.2 Tools

An optical microscope with a large stage to hold upright samples.

4 Procedure

We held each sample in the microscope and focused on the cross-section where it fractured. Images were recorded and saved.

5 Results

All data can be seen in the LabData directory.

6 Observations

The strength of the material changed how it looked.