

# 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.