

CEEN 3311 ±Strength of Materials

4B

Due: Monday, 03/21/2022

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This spreadsheet contains strain (in/in) and load (lbf) data for a 1095 HR (hot rolled) steel. The data contained in this spreadsheet resulted from a tensile test of a 1095 HR steel specimen of original diameter 0.505 in. Create a stress-strain diagram for 1095 HR steel using this data. Use Excel or another computer program to generate a stress-strain diagram. Determine (i) the yield stress and (ii) σ_{UTS} for the material. Describe how to determine them in detail referring to ASTM standard. Prepare your report by hand writing but attach the printed stress-strain diagram at the end of the report.