ME 531 Homework # 1 Due February 3, 2016

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The MTS model is described in the PhD thesis of Michael Bange, University of Illinois. It can be downloaded through the UIUC library (Proquest dissertation). These equations are given in Chapter 2 of the thesis and also in his Appendix. Based on these equations and the constants given in the Table below, please reproduce the stress-strain curves shown at the bottom.









