Take Home Exam03C: Fracture Toughness

## Assigned: 03/10/2022 (Thursday)

## Due (as pdf by email) 03/16/2022 (Wednesday)

You may submit your answers in one of two ways:

(i) •For typed answers: as a .docx file (as is) or converted into a pdf file. (DO NOT SEND GOOGLE DOC)

•For handwritten answers: Please scan as images, and group together into one pdf file. Or you may hand them manually to my office (ECME-212)

(ii) Please send your submission via email starting with HWExam03C in the subject line.

Write a narrative (one or two pages) describing the following features of the material presented in the class today (Thursday)

•What was the gist of the subject matter discussed in class today.

•Describe the steps in the analysis (in words only) that led to the following equations

 (5)

 (6)

Diagram, engineering drawing

Description automatically generated

•Describe the relevance of Eq. (6) in the map showing the relationship between the fracture toughness and the Young's Modulus of different classes of materials.