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I was going to ask about the Exam 2, question 3 with the little volume elements. It seems like the shear stress would be in in the negative tau xy direction just based on the given stress diagram. for point M.

Exam 1 | ME 323: Mechanics of Materials

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and strain relations. chapter 06: stress

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Strength of Materials Problems and Solutions

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3. The cylindrical steel tank shown is 3.5 m in diameter, 5 m high, and filled with a brine solution. Brine has a density of 1198 kg/m^3 . The thickness of the steel shell is 12.5 mm. Neglect the weight of the tank. 5m What is the approximate

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About Strength of Materials Strength
of Materials (also known as Mechanics
of Materials) is the study of the
internal effect of external forces
applied to structural member. Stress,
strain, deformation deflection,
torsion, flexure, shear diagram, and
moment diagram are some of the
topics covered by this subject.

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Solutions of Materials 13-3d3 Stress and Strain Example 2 (FEIM): The maximum shear stress is most nearly (A)24 000 kPa (B)33 500 kPa (C)38 400 kPa (D)218 000 kPa Therefore, (C) is correct. In the previous example problem, the radius of Mohr ' s circle (σ_{max}) was! " $\sigma_{max} = (30000 \text{ kPa})^2 + (24000 \text{ kPa})^2 = 38419 \text{ kPa}$ (38400 kPa)

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Mechanics describes and predicts what happens to bodies subjected to forces. Mechanics of Materials deals with the determination of stresses and deformations.

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