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of assumptions behind the scenes throughout this course we will assume that all materials are homogenous isotropic and elastic we will also assume that the object is prismatic meaning the cross sections are the same all along its length e.g. a cucumber is prismatic while a butternut squash is not

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gravity wikipedia Oct 23 2019 web ancient world the nature and mechanism of gravity was explored by a wide range of ancient scholars in greece aristotle believed that objects fell towards the earth because the earth was the center of the universe and attracted all of the mass in the universe towards it he also thought that the speed of a falling object should increase with its

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mechanics of materials bending shear stress Sep 14 2021 web as we learned while creating shear and moment diagrams there is a shear force and a bending moment acting along the length of a beam experiencing a transverse load in a previous lesson we have learned about how a bending moment causes a normal stress this normal stress often dominates the design criteria for beam strength but as