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Materials Laboratory

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| **Across**  **3.** a line or plane through a beam where no strain occurs during  **6.** stiffness of material  **7.** the ability of a material to withstand plastic deformation without fracture  **8.** the angle through which fixed end of a shaft rotates with respect to the free end  **9.** the ratio of shear stress to shear strain  **10.** other name for modulus of elasticity | **Down**  **1.** a measure of a circular beam's ability to resist torsion  **2.** there is no deflection of a beam located here  **4.** fractures at or near its proportional limit  **5.** the yield strength can be defined by what |