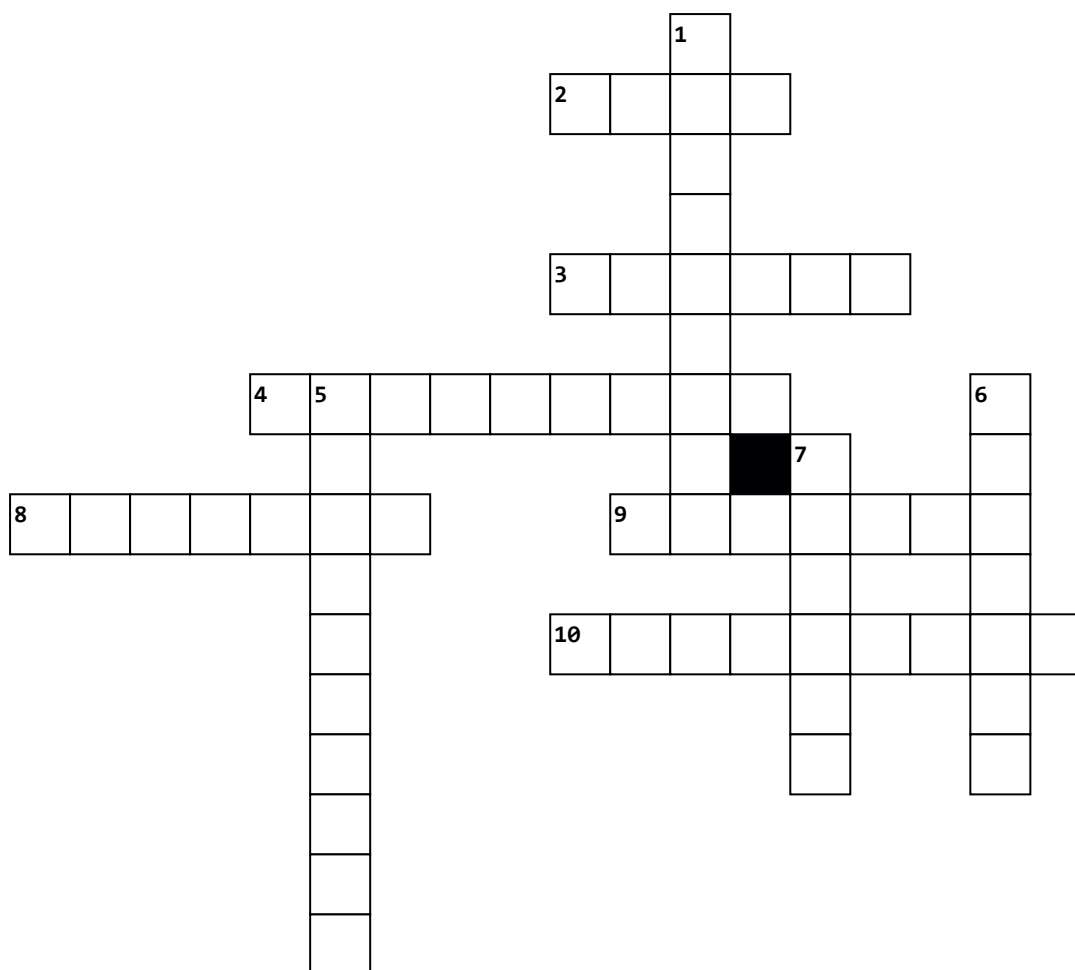


Unsymmetrical Bending



Across

- 2.** Loads, What type of loads are applied at an angle to the principal axis of a beam?
- 3.** Considerations, What factors are involved in beam design, including material selection and safety margins?
- 4.** Axis, What is the axis of a beam where bending occurs without twisting or warping?
- 8.** Axis, What is the axis of a beam under bending where no longitudinal stress exists?
- 9.** Modulus, What geometric property is used to calculate bending stress in a beam?
- 10.** Beams, What type of beams have identical geometry and material properties about the central axis?

Down

- 1.** Components, In which industry is bending analysis applied to design aircraft wings and fuselages?
- 5.** Applications, In which industries is beam bending analysis used for practical design?
- 6.** Stresses, In which sections do stresses occur when a beam has an irregular cross-section under bending?
- 7.** Distribution Analysis, What process determines how stress varies across a beam's cross-section under load?