

SCE Practice Test Questions and Answers

1. Poisson's ratio relates:

- A) Lateral strain to axial strain
- B) Stress to strain
- C) Force to area
- D) Shear stress to shear strain

2. What is the Gibbs phase rule?

- A) $F = C - P + 2$, relating degrees of freedom, components, and phases
- B) $F = C + P - 2$
- C) $F = C \times P$
- D) $F = 2C - P$

3. Bernoulli's equation assumes:

- A) Steady, incompressible, inviscid flow along a streamline
- B) Turbulent, compressible flow
- C) Viscous flow with friction losses
- D) Unsteady flow conditions

4. What is the Stefan-Boltzmann law?

- A) The total radiant heat energy emitted is proportional to the fourth power of absolute temperature
- B) Heat conduction is proportional to temperature gradient
- C) Convection heat transfer depends on fluid velocity
- D) Radiation only occurs in vacuum

Answers: 1-A 2-A 3-A 4-A

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