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Joint Failures

Design of Steel Structures



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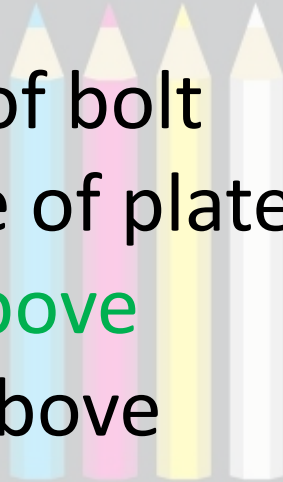
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In failure of a bolted joint, shear failure mode indicates

- a. Shear failure of bolt
- b. Tearing failure of plate
- c. **Both of the above**
- d. None of the above



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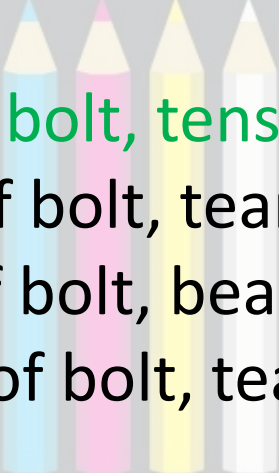
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The tensile failure mode of a bolted connection may be ____ or ____

- 
- a. **Tensile failure of bolt, tensile failure of plate**
 - b. Bearing failure of bolt, tearing failure of plate
 - c. Tearing failure of bolt, bearing failure of plate
 - d. Shearing failure of bolt, tearing failure of plate

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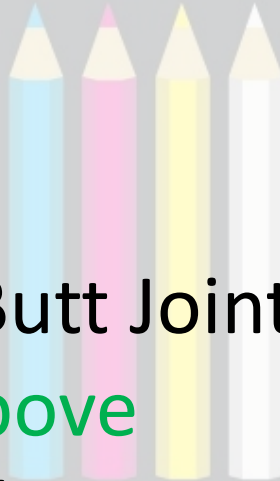
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When a joint undergoes shear failure, the bolt undergoes shearing in one plane in _____



- a. Lap Joint
- b. Single Cover Butt Joint
- c. Both of the above
- d. None of the above

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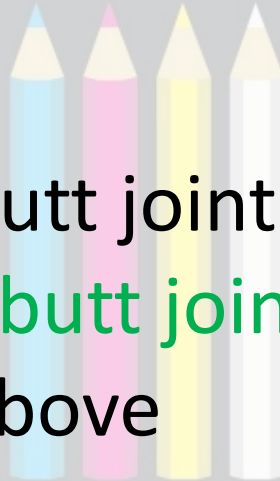
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Double shear failure of bolts can take place in

- a. Lap joint
- b. Single cover butt joint
- c. **Double cover butt joint**
- d. None of the above



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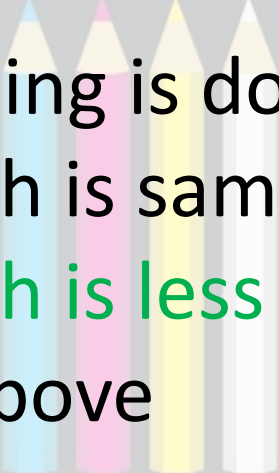
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Tearing failure of plate occurs when

- 
- a. Excessive loading is done
 - b. Plate's strength is same as that of bolt
 - c. Plate's strength is less than that of bolt
 - d. None of the above

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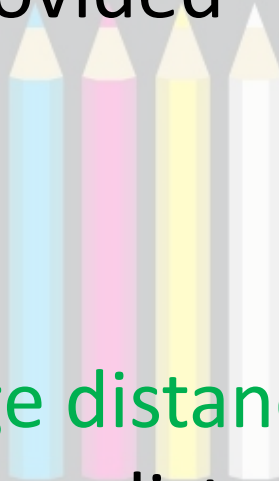
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In order to avoid tearing failure of plate,
_____ should be provided

- a. Thick plates
- b. Thin plates
- c. **Minimum edge distance**
- d. Minimum gauge distance



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When a bolt is subjected to stress greater than its tensile capacity

- 
- a. It fails in tension
 - b. Ductile failure takes place
 - c. Plate tears
 - d. None of the above

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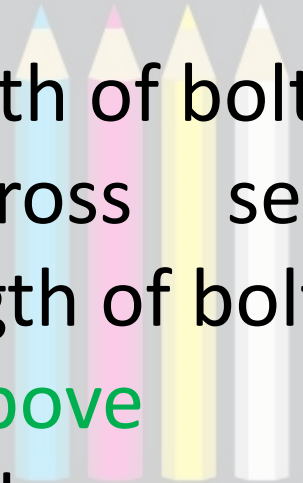
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A bolt's tensile capacity depends upon

- 
- a. Tensile strength of bolt
 - b. Minimum cross section area of threaded length of bolt
 - c. **Both of the above**
 - d. None of the above

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