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Quiz

- A Fiber failure
- B Delamination
- C Matrix crack
- D Debonding



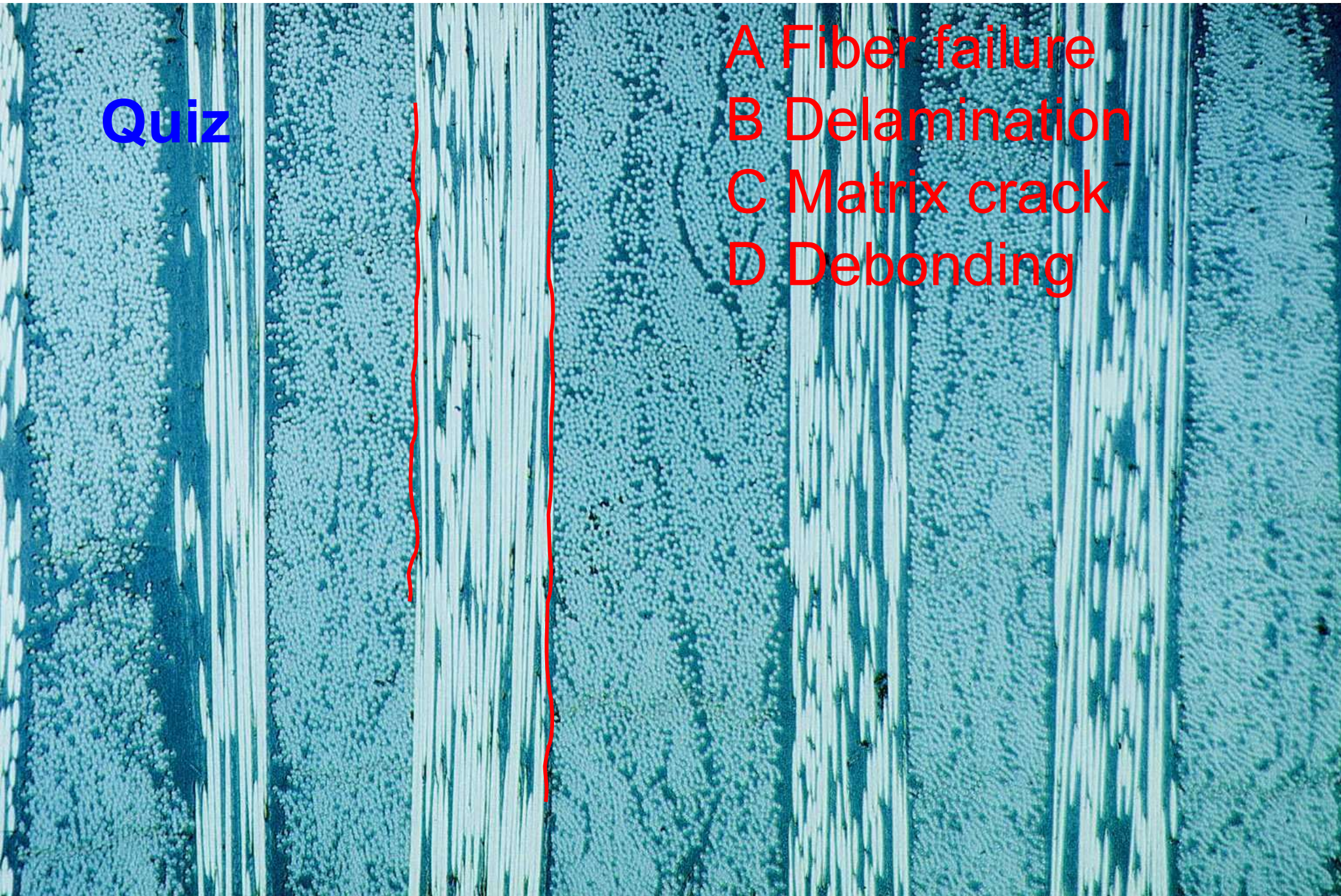
Answer to Quiz

- A Fiber failure
- B Delamination
- C Matrix crack
- D Debonding



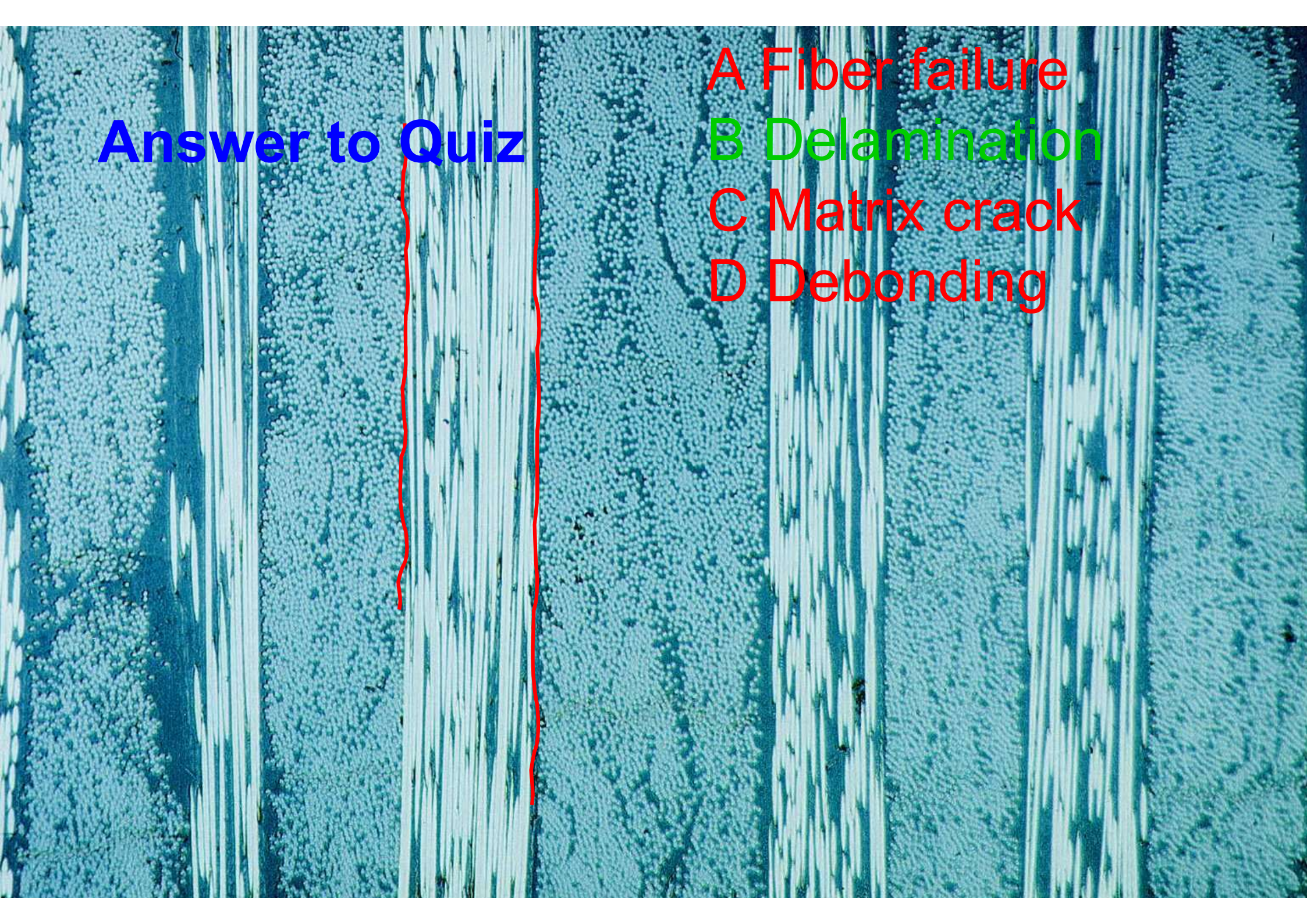
Quiz

- A Fiber failure
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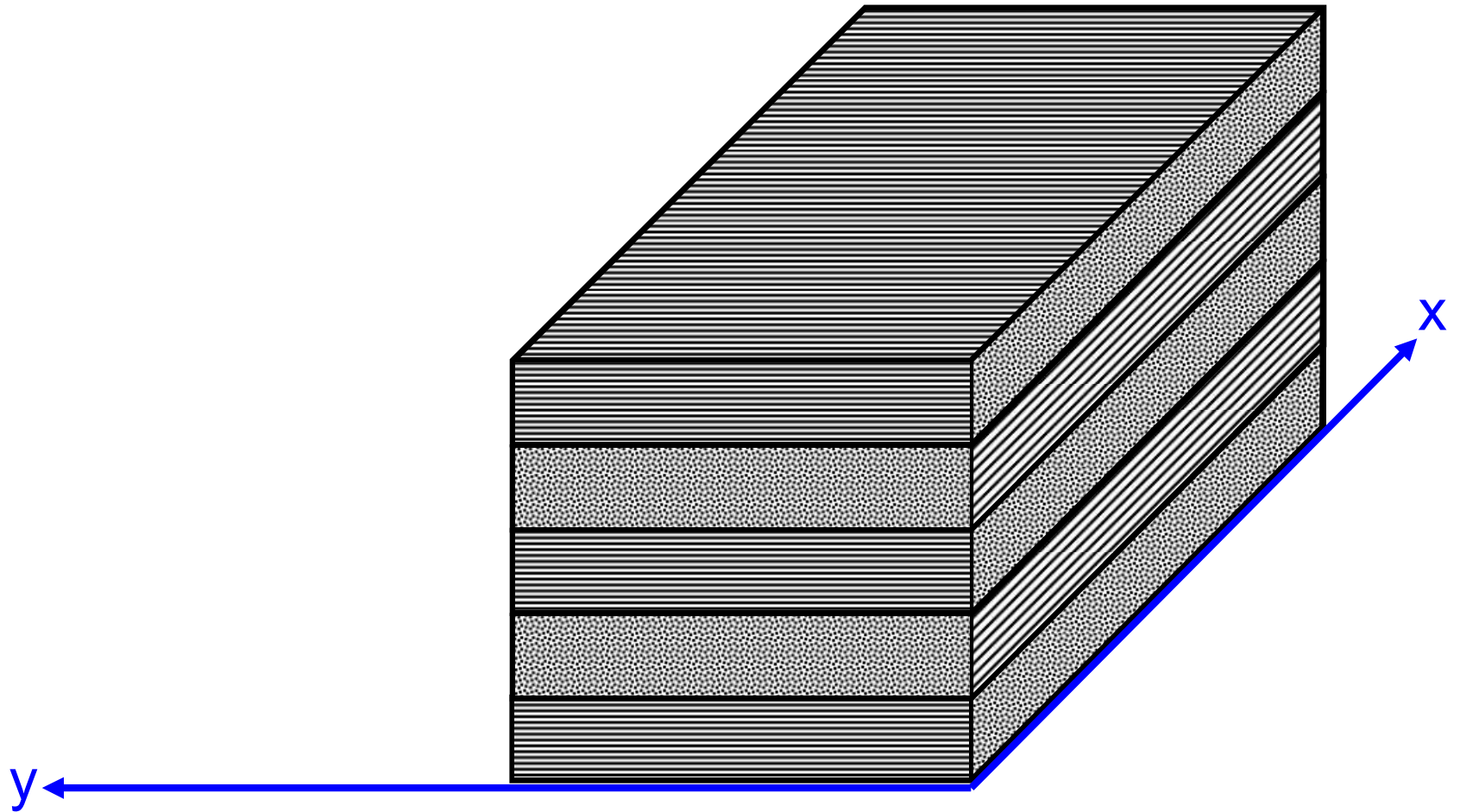


Answer to Quiz

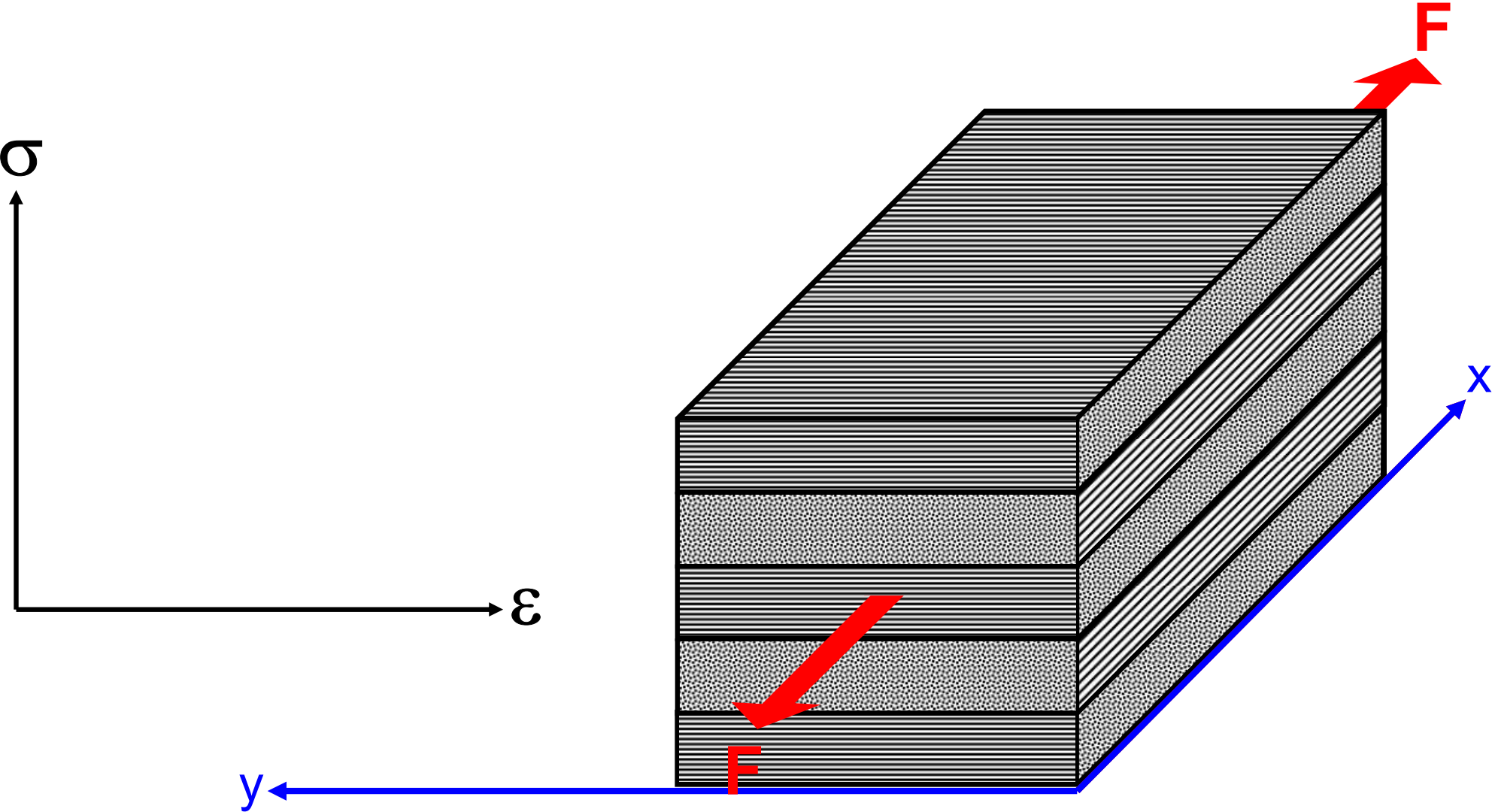
- A Fiber failure
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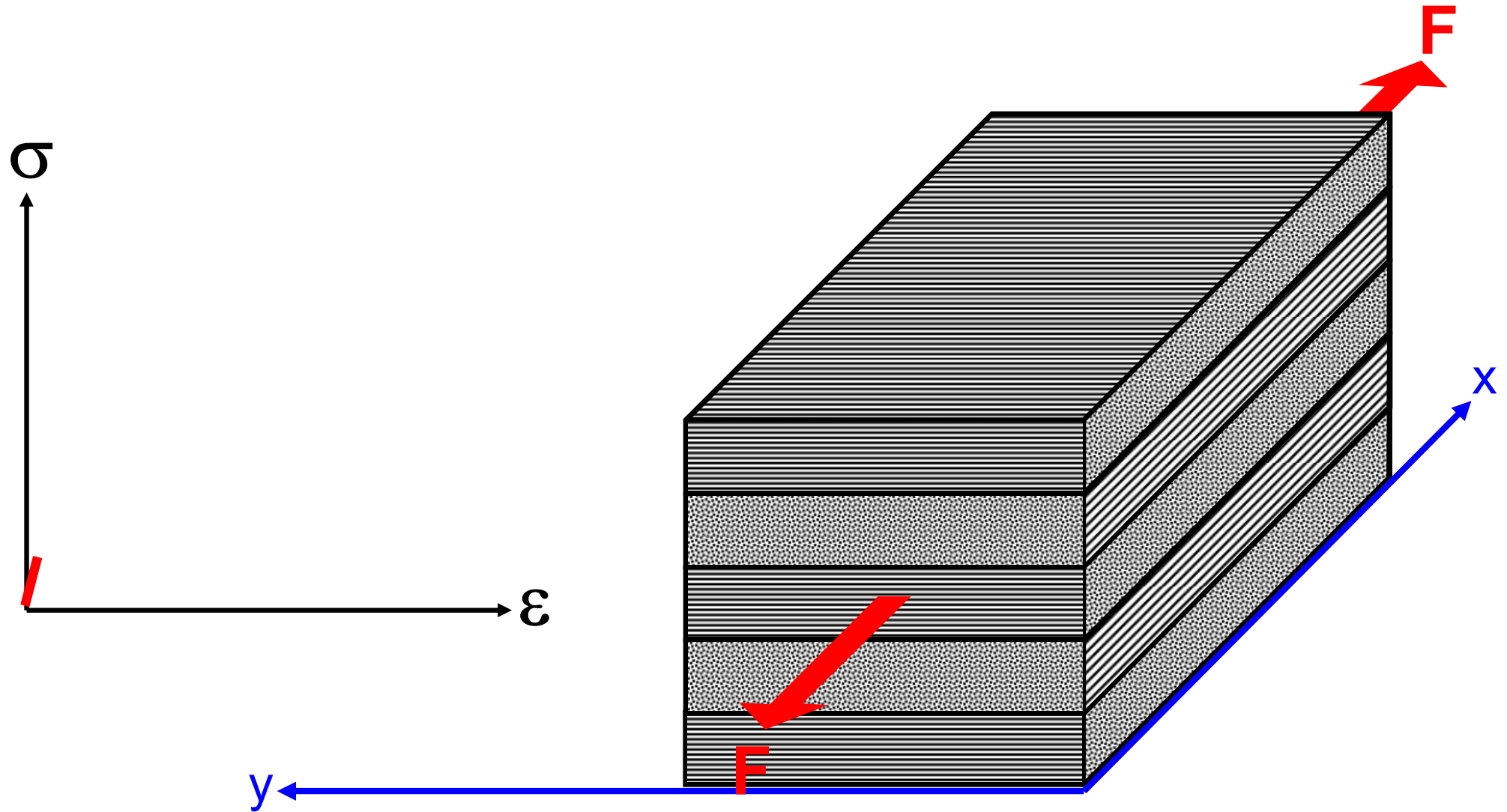
Symmetric Crossply Laminate ($90^\circ/0^\circ/90^\circ/0^\circ/90^\circ$)



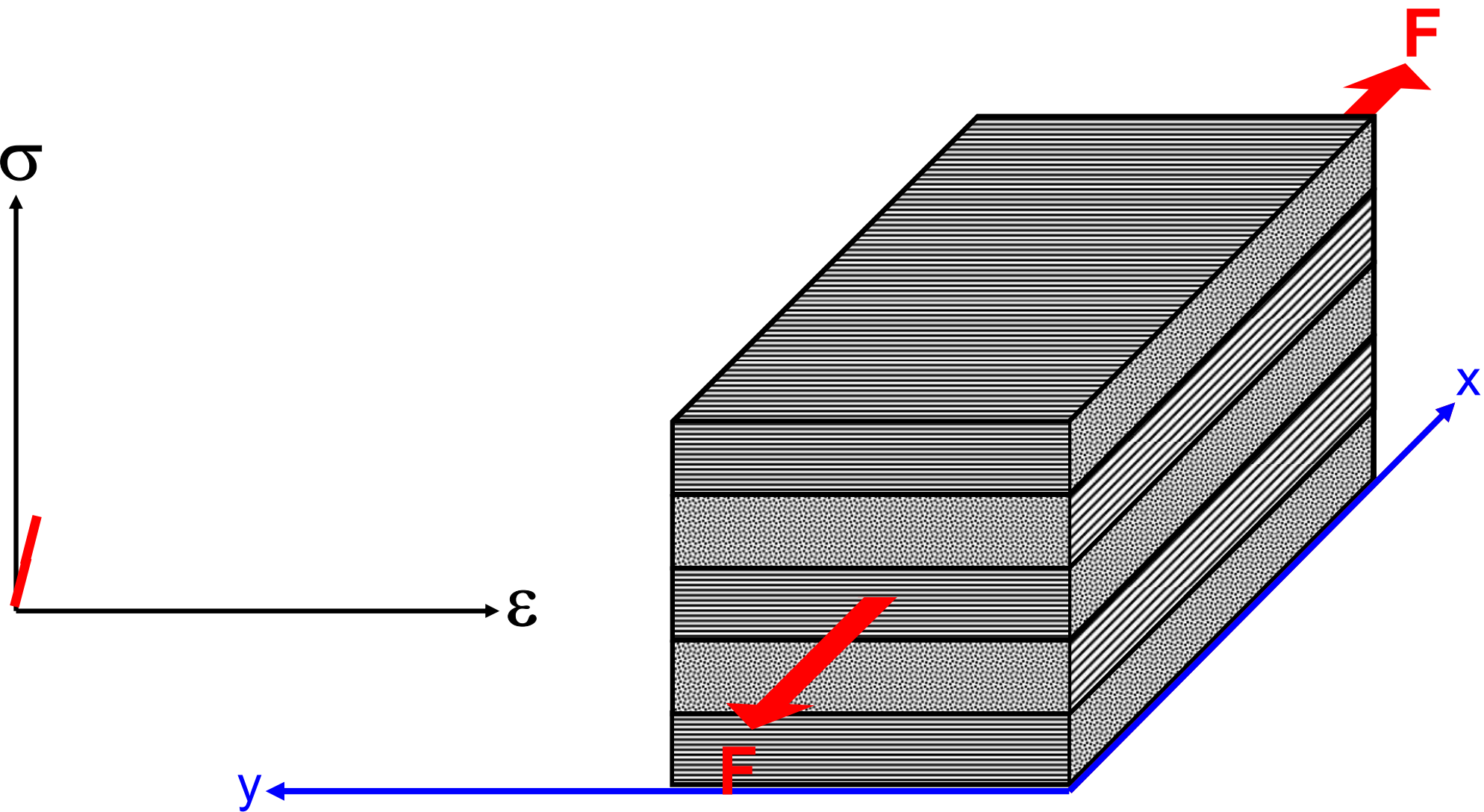
Nonlinear Failure Analysis



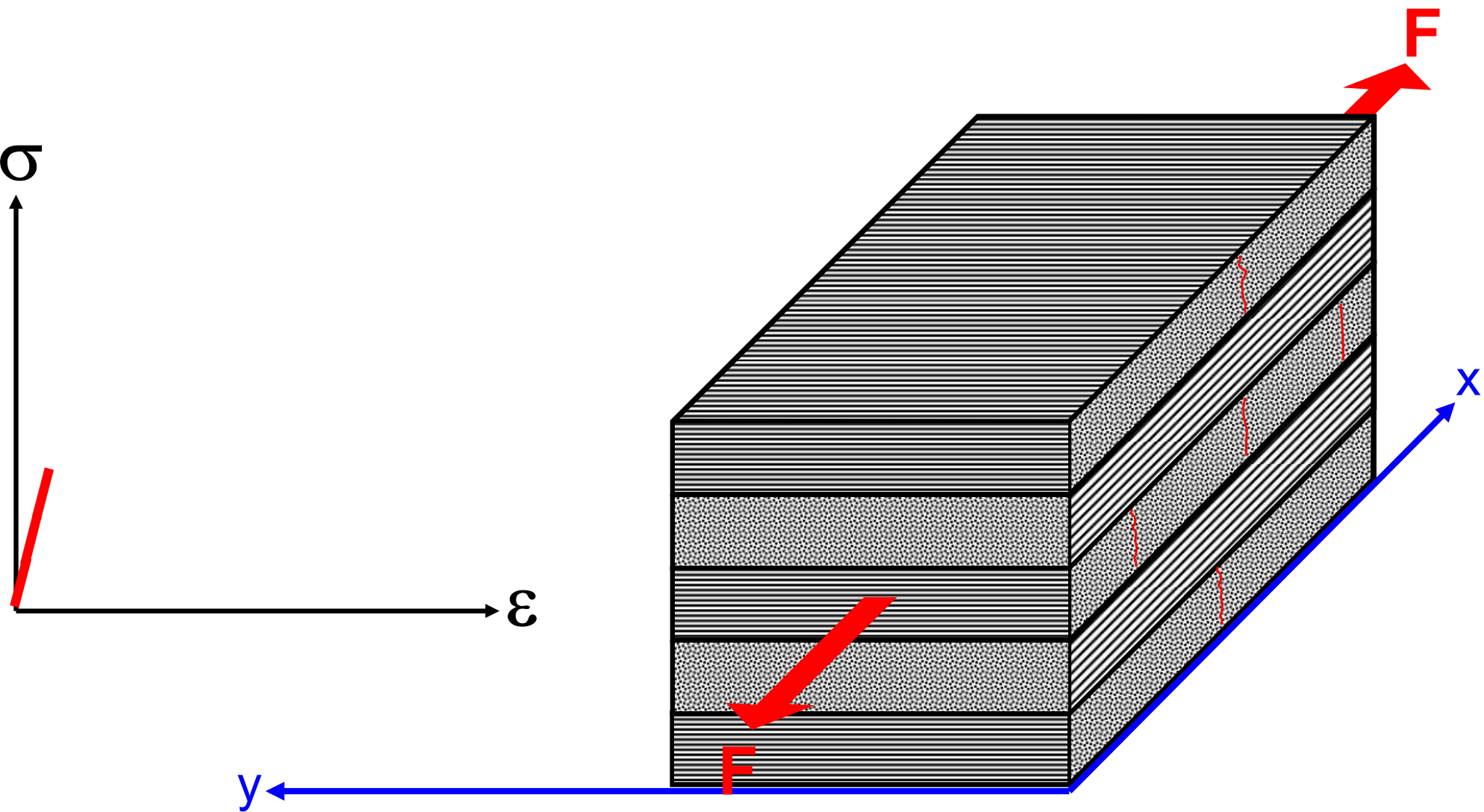
Nonlinear Failure Analysis



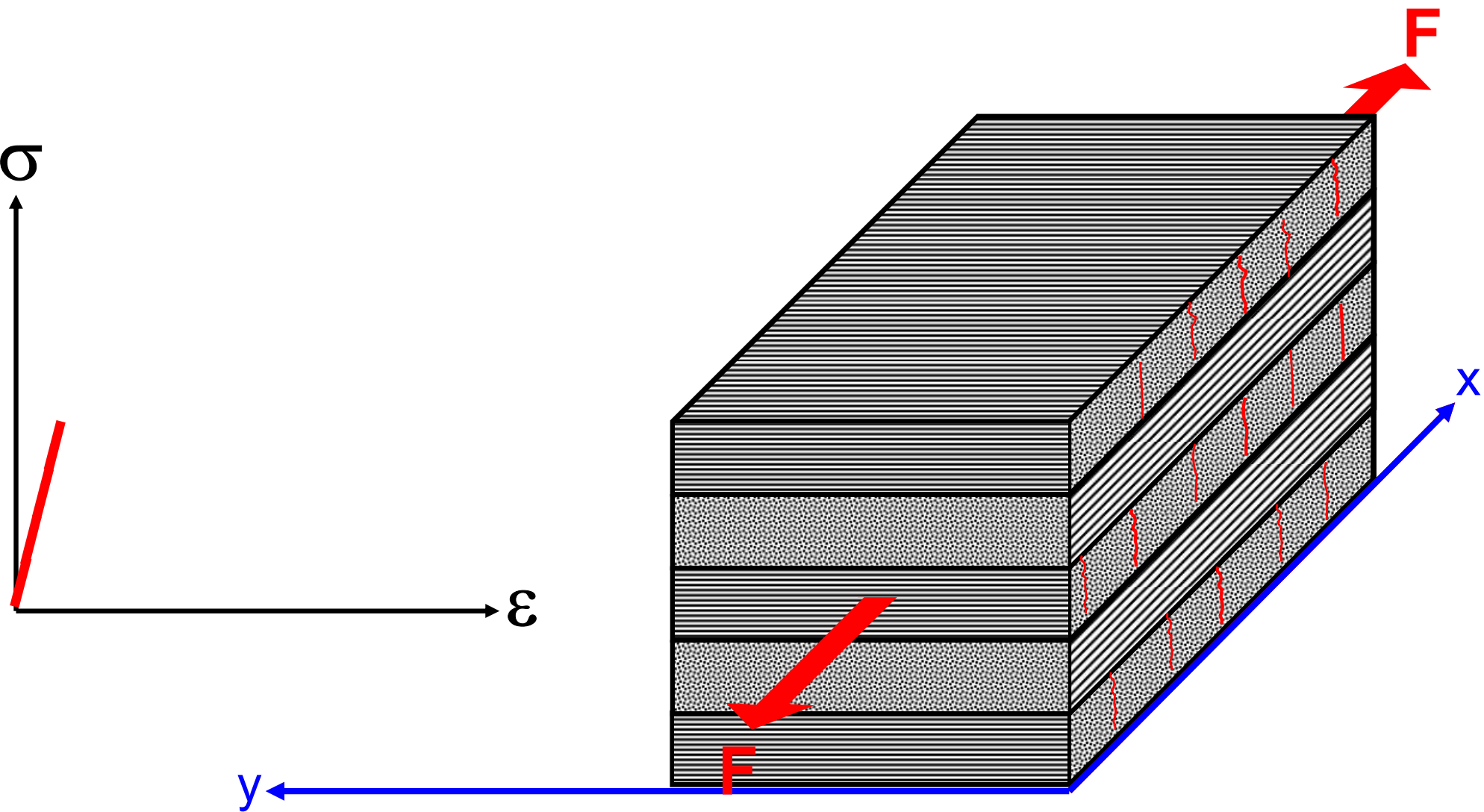
Nonlinear Failure Analysis



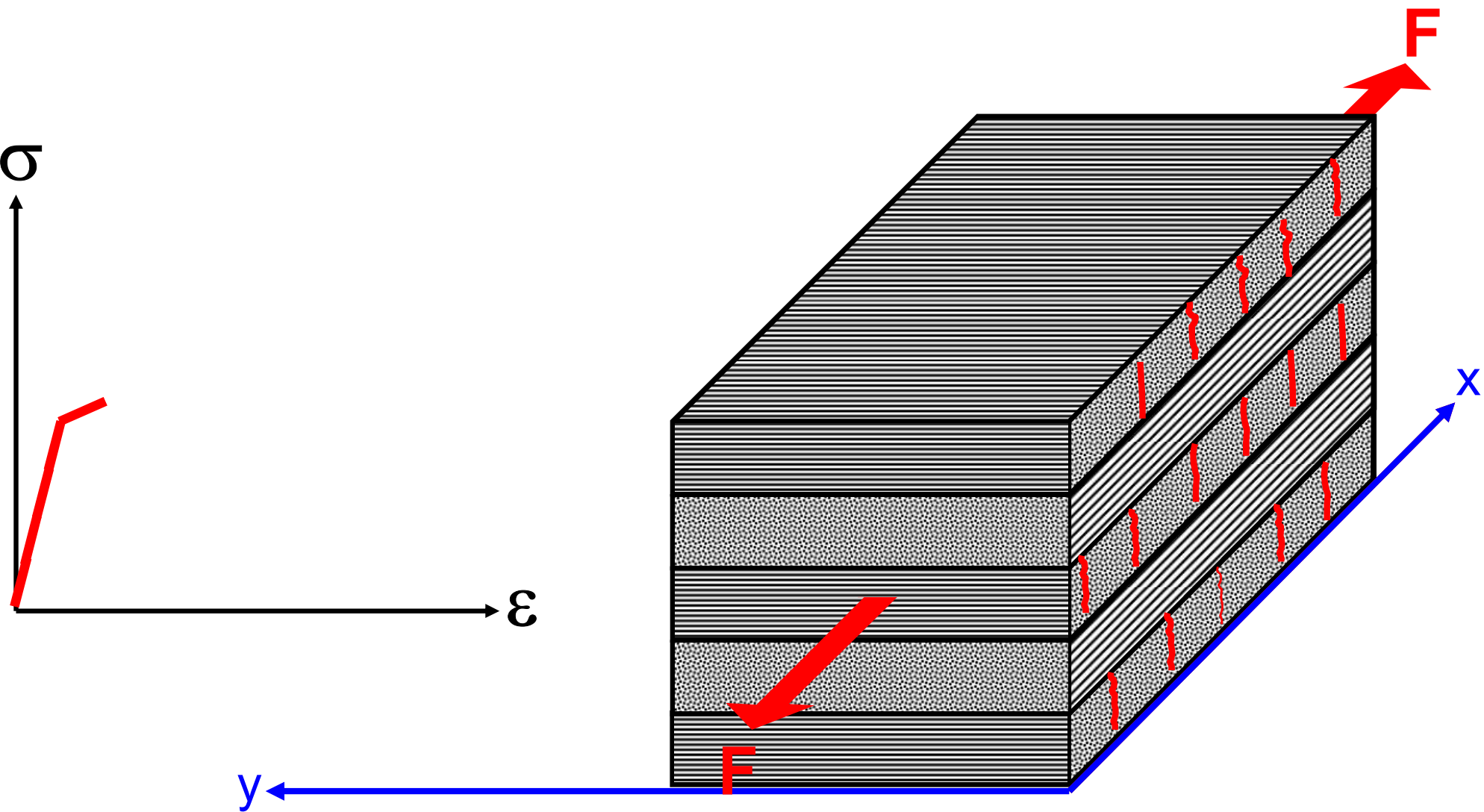
Nonlinear Failure Analysis



Nonlinear Failure Analysis

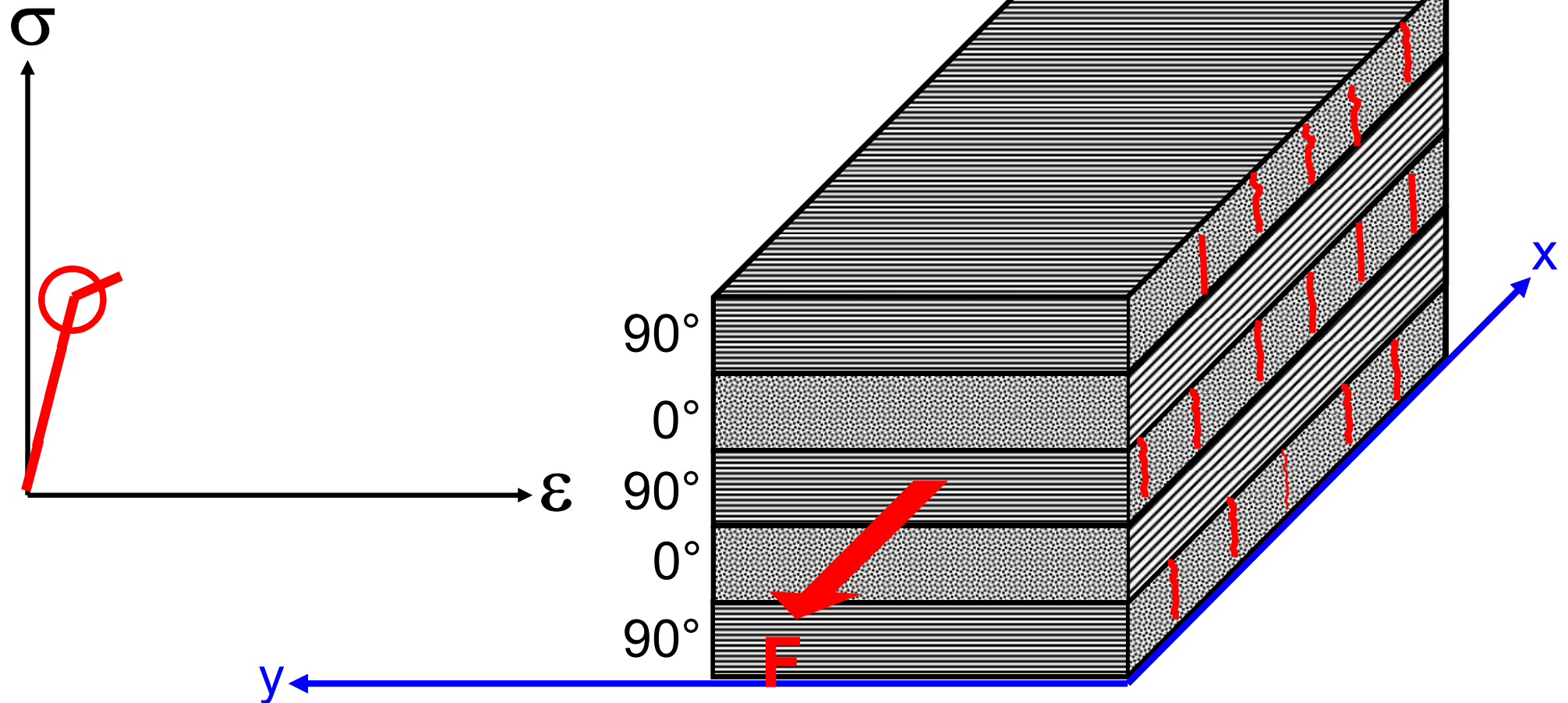


Nonlinear Failure Analysis



Quiz

After reaching the „kinking point“ \bigcirc
the elasticity constants of the
UD-Laminas have to be adjusted !



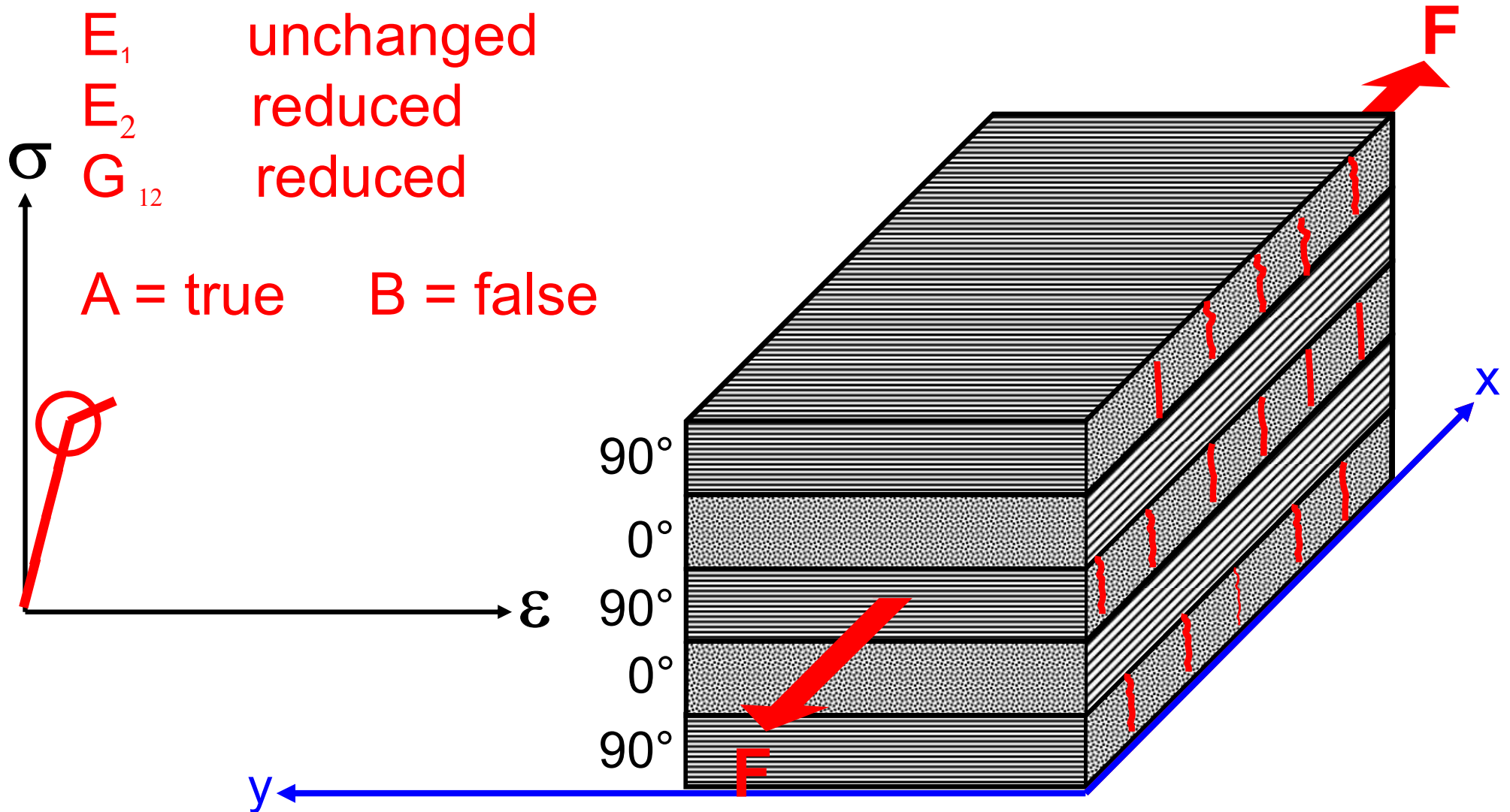
Quiz Which Measures shall be taken for 0° -Laminas?

E_1 unchanged

E_2 reduced

G_{12} reduced

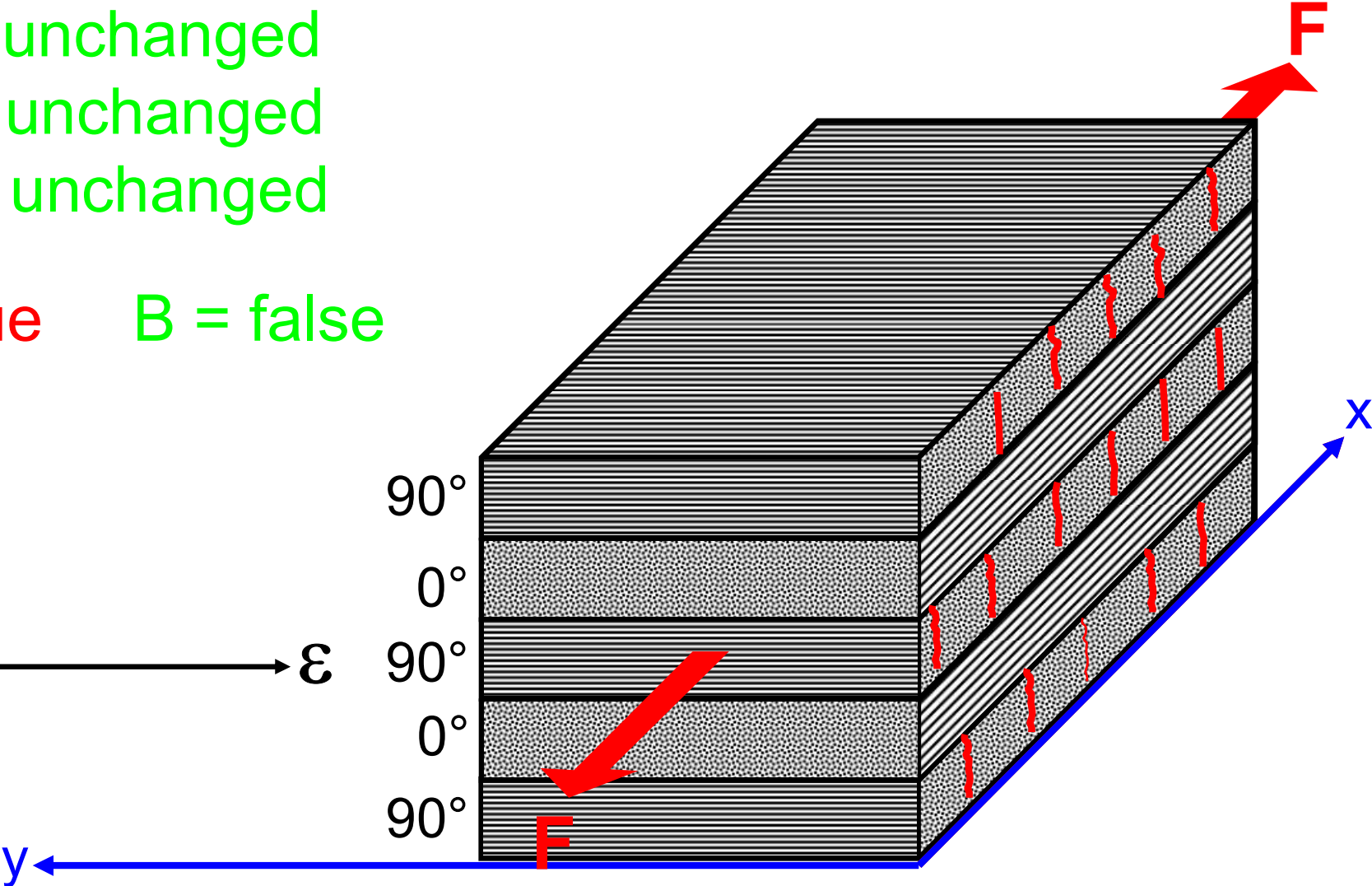
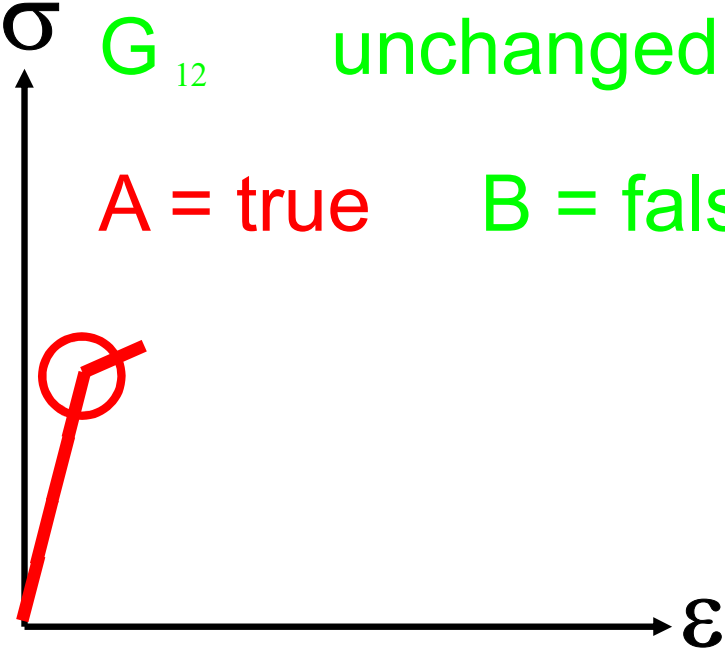
A = true B = false



Answer to Quiz

E_1 unchanged
 E_2 unchanged
 G_{12} unchanged

A = true B = false



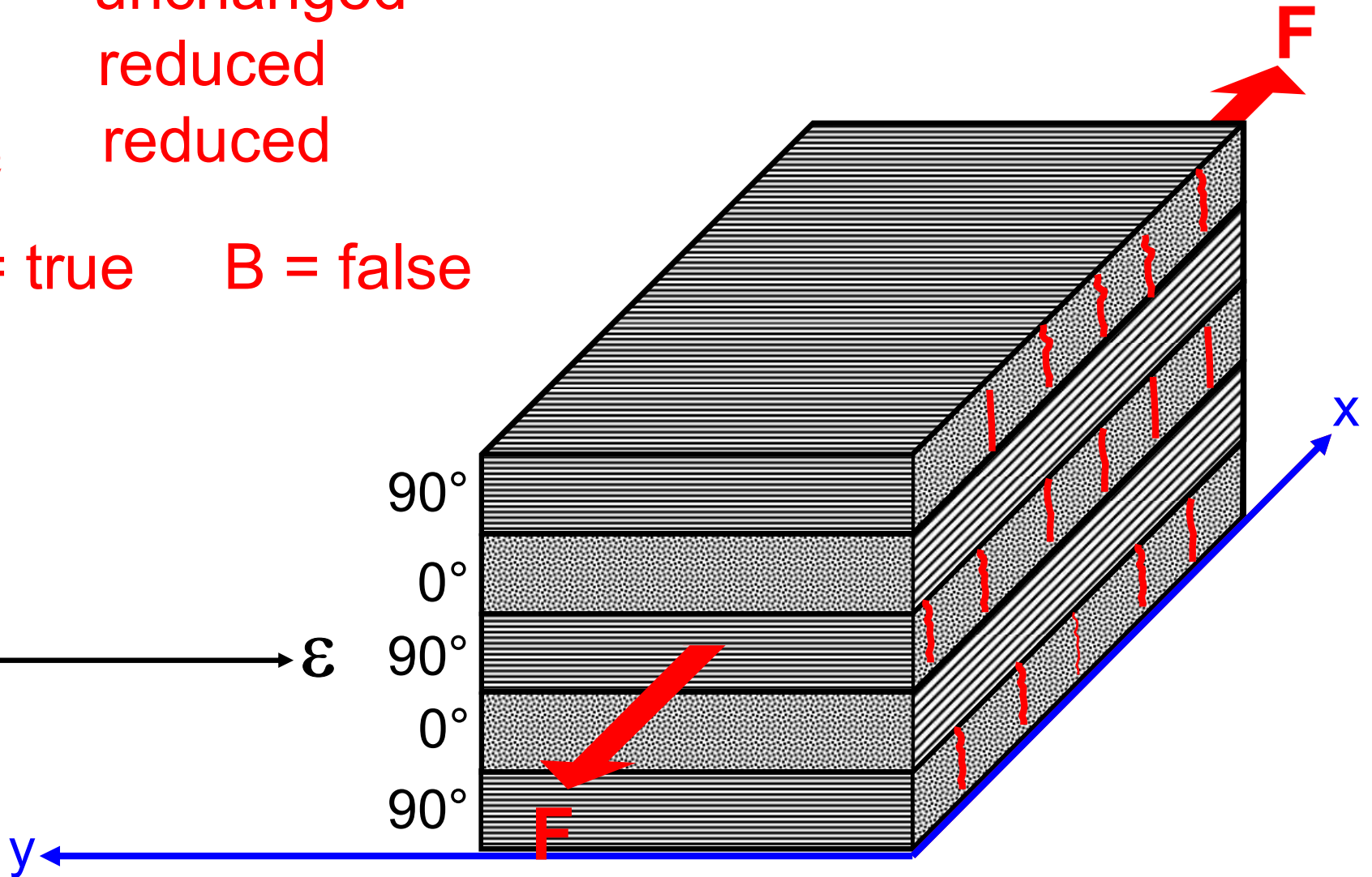
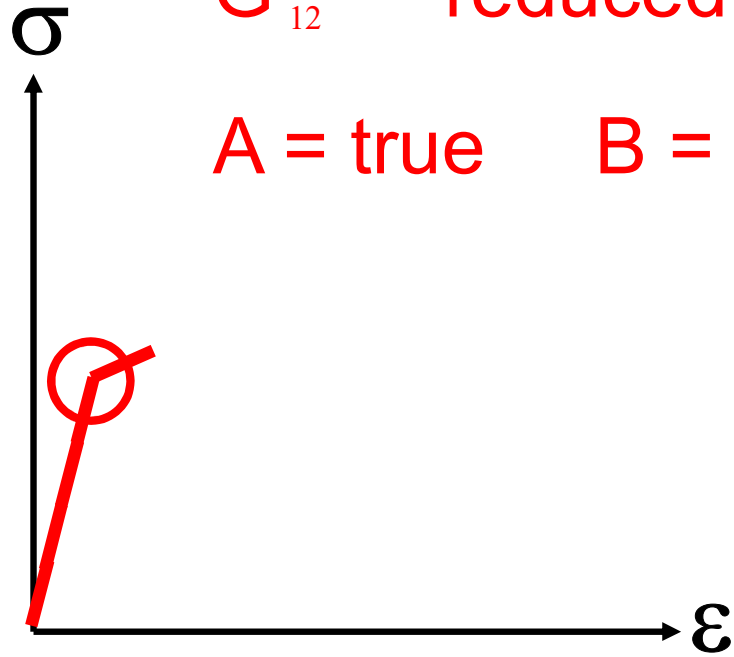
Quiz Which Measures shall be taken for 90°-Laminas?

E_1 unchanged

E_2 reduced

G_{12} reduced

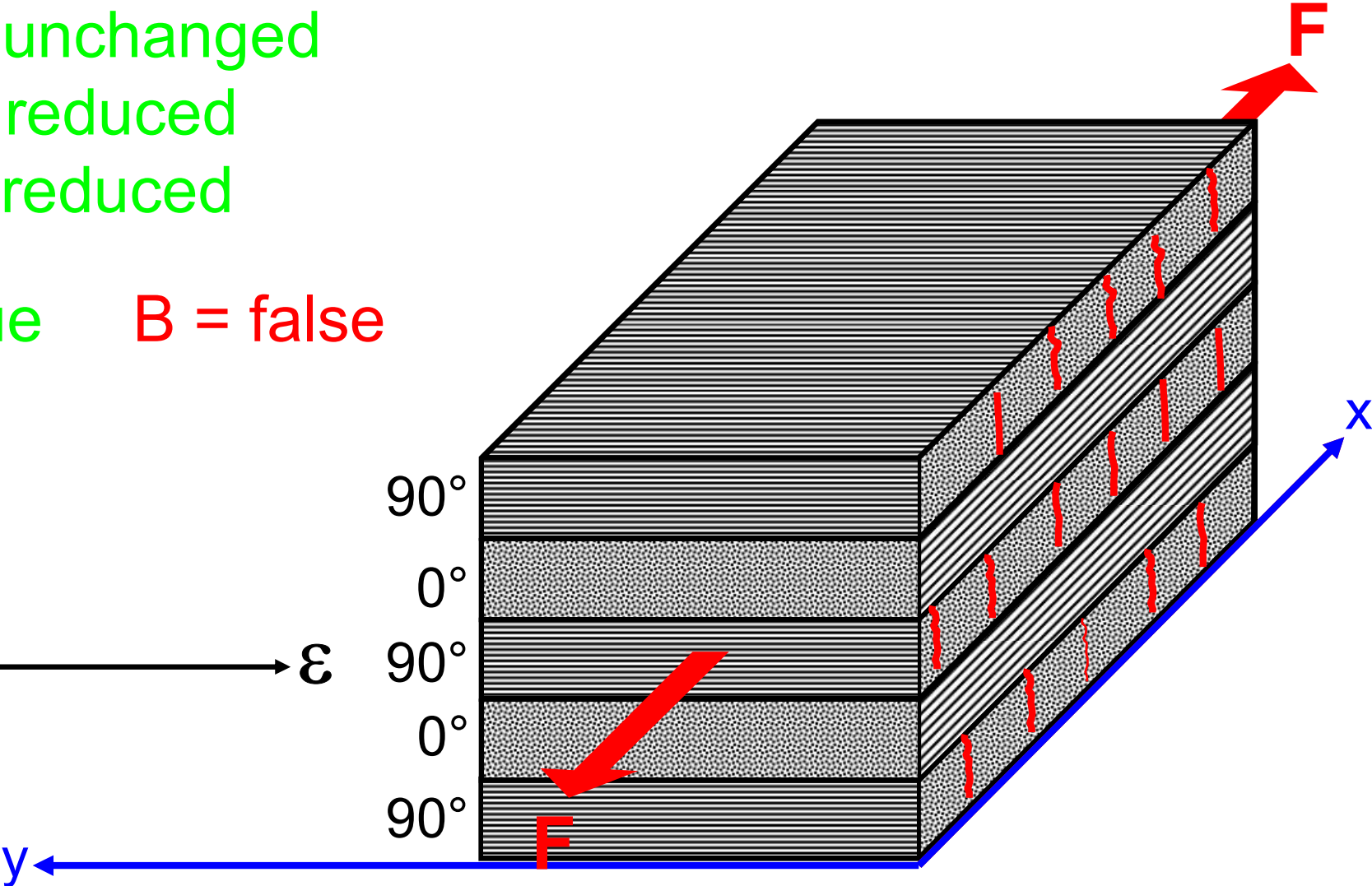
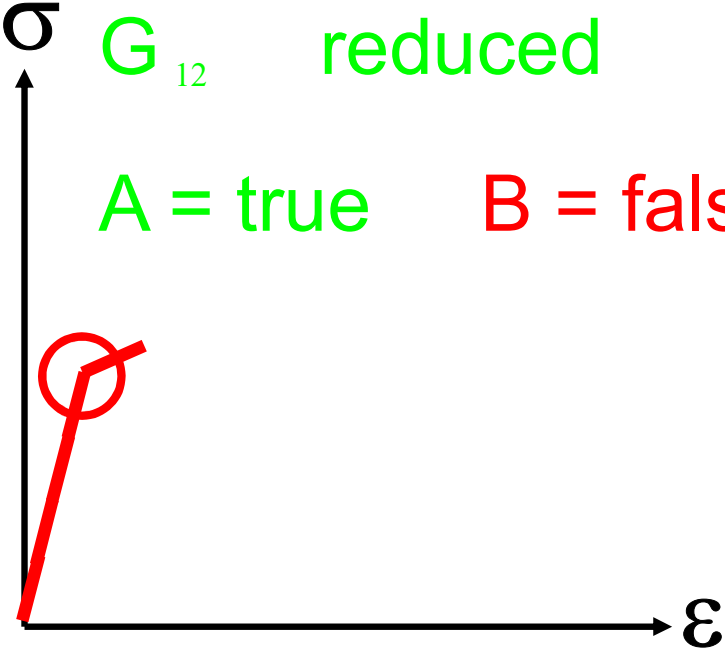
A = true B = false



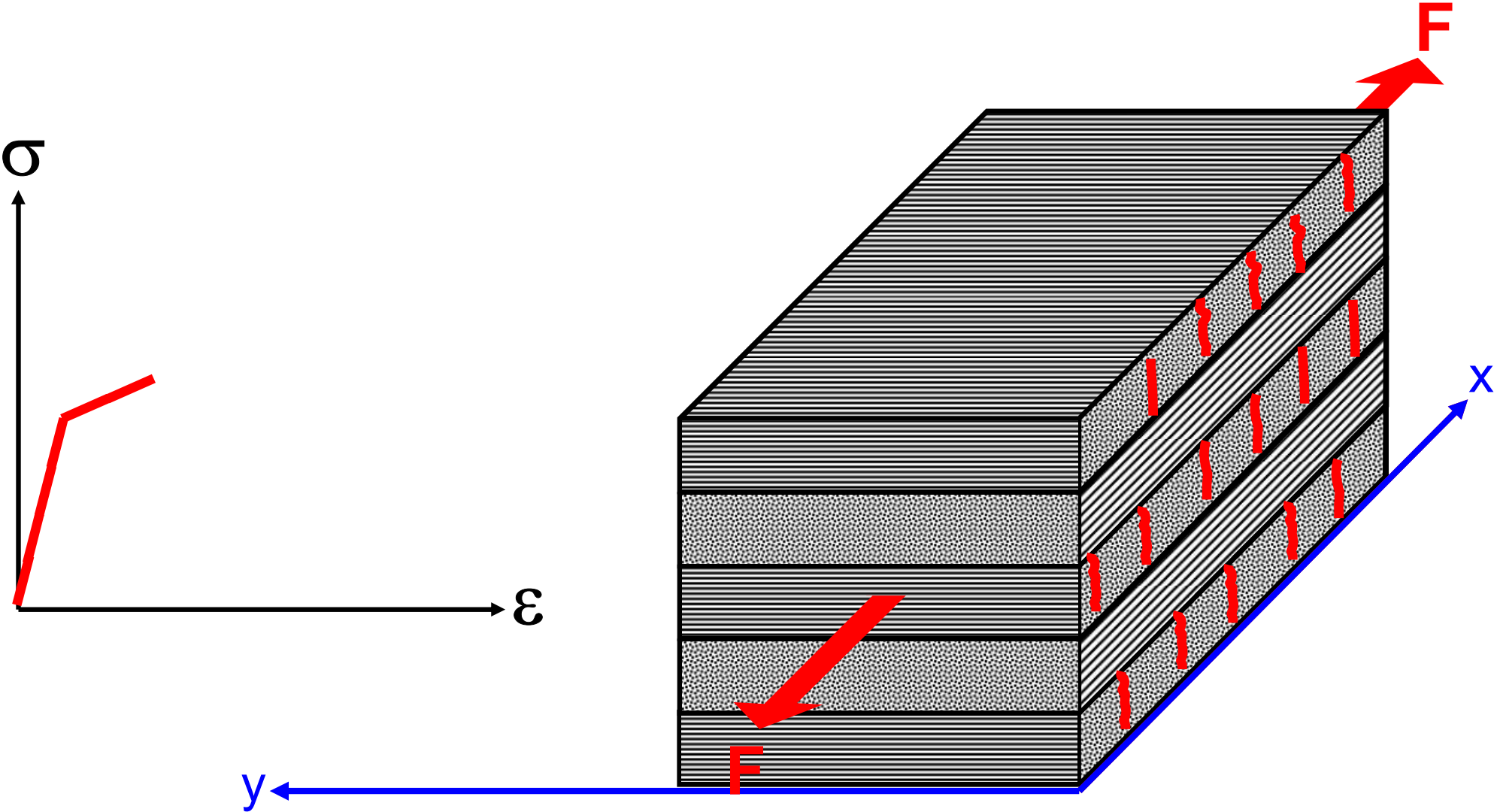
Answer to Quiz

E_1 unchanged
 E_2 reduced
 G_{12} reduced

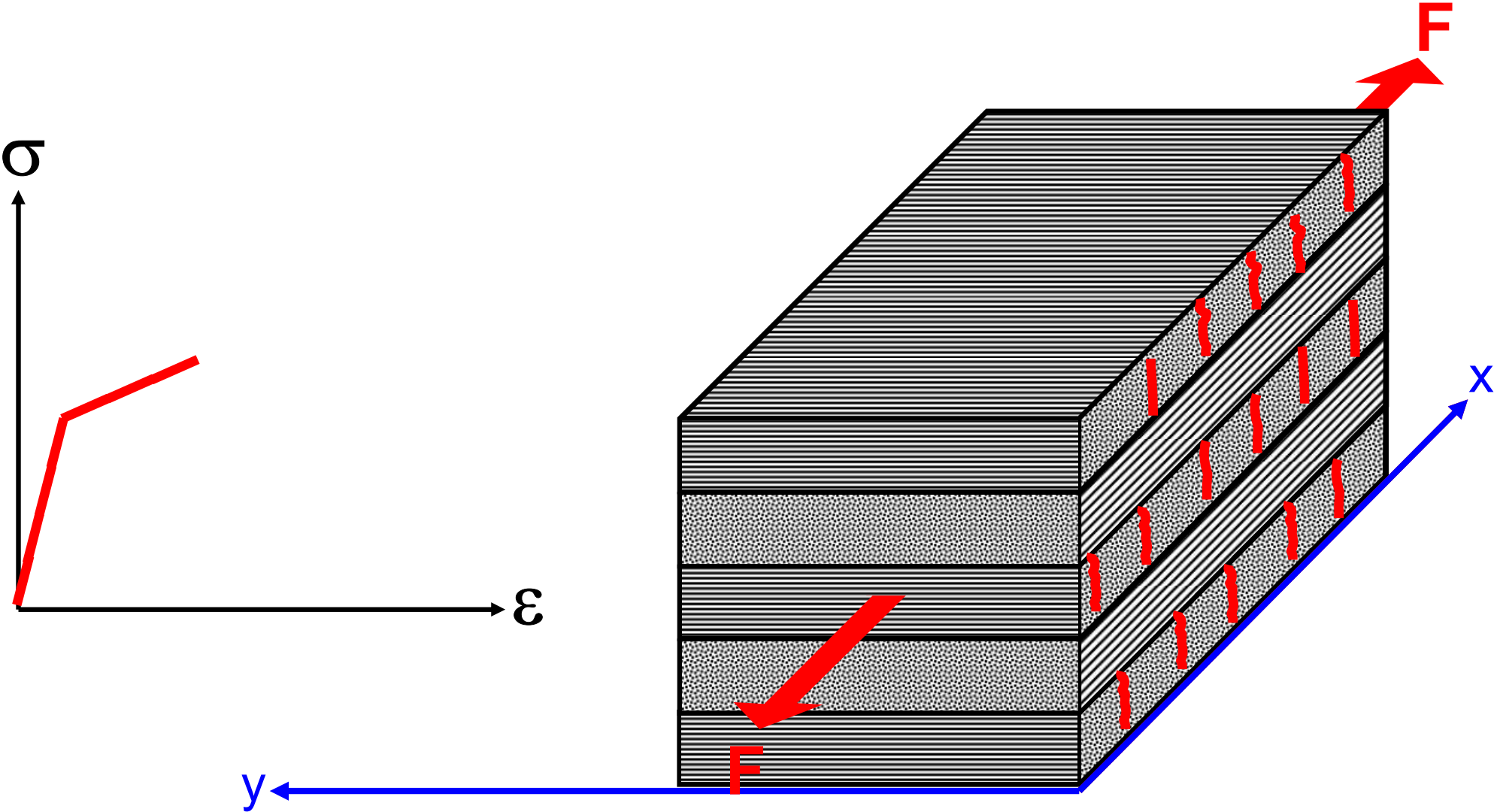
A = true B = false



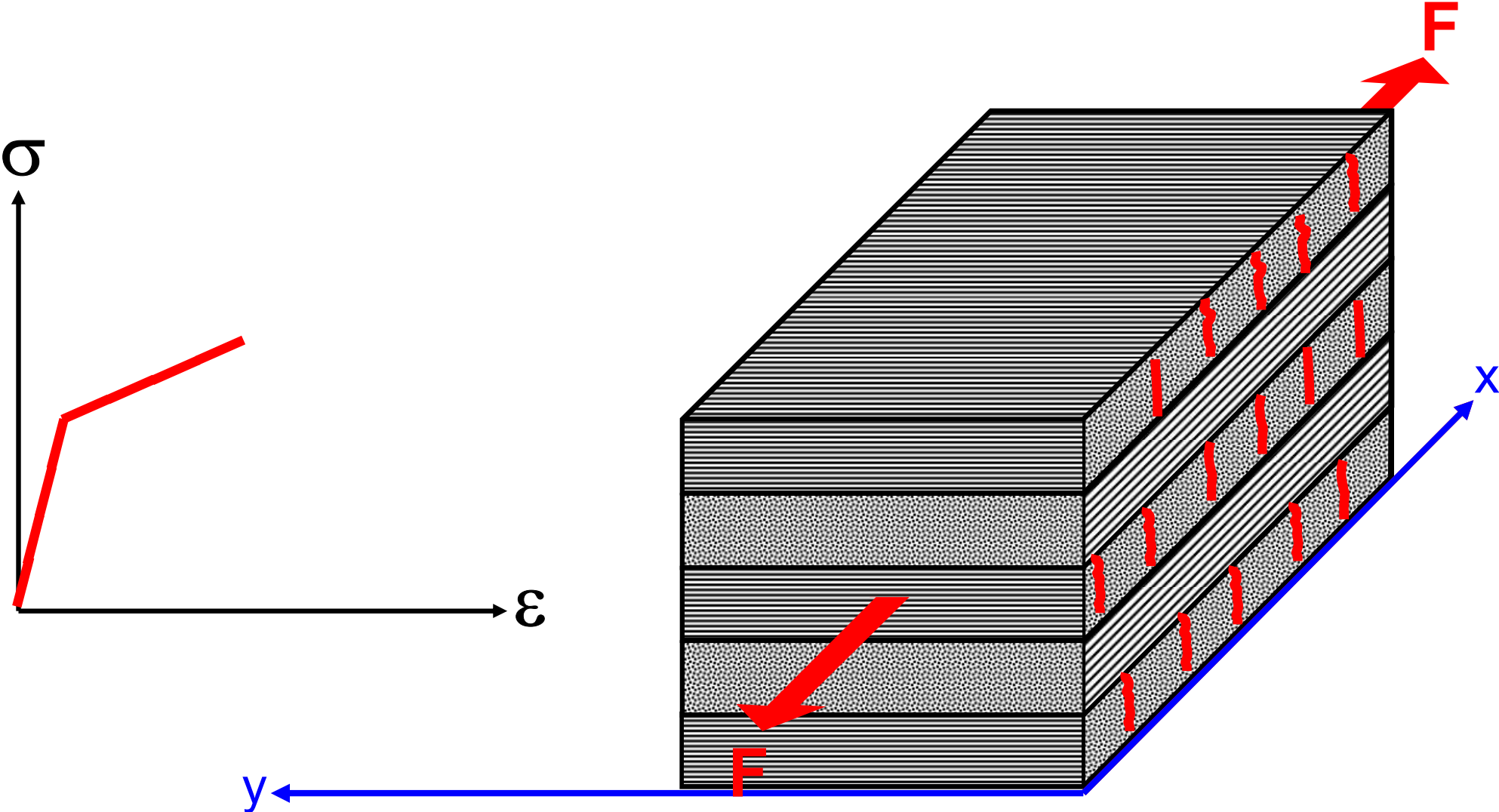
Ply by ply failure analysis



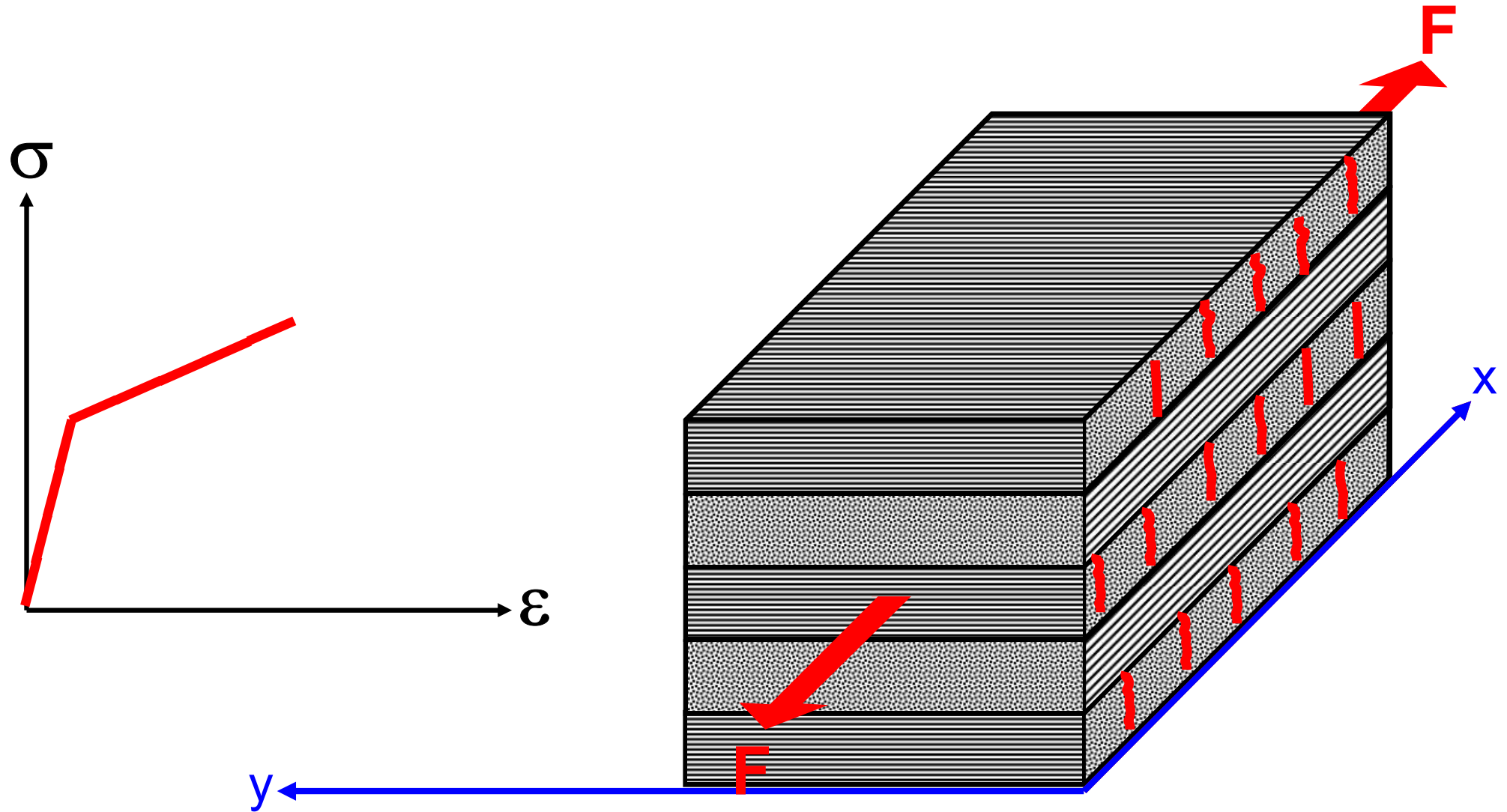
Ply by ply failure analysis



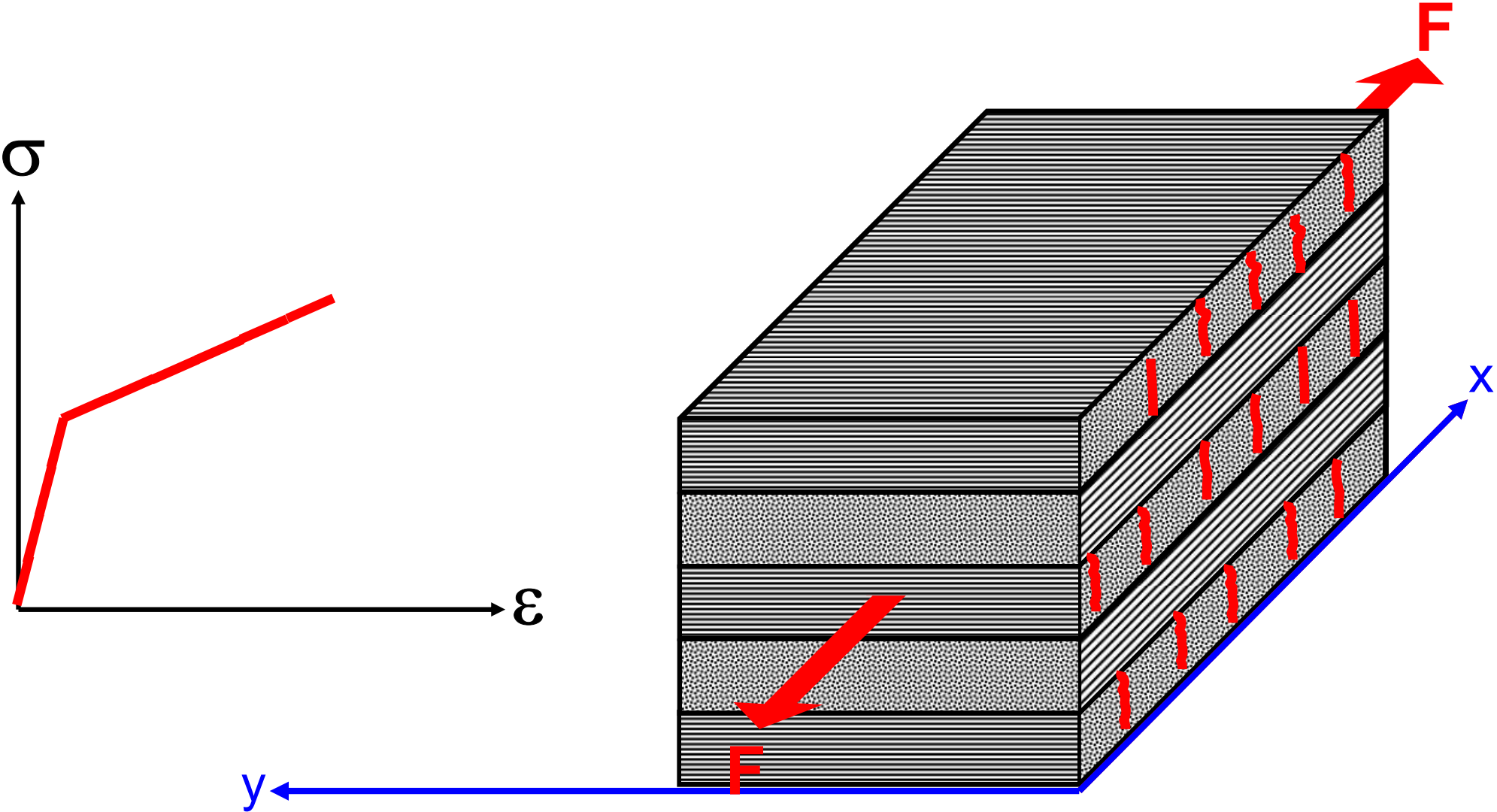
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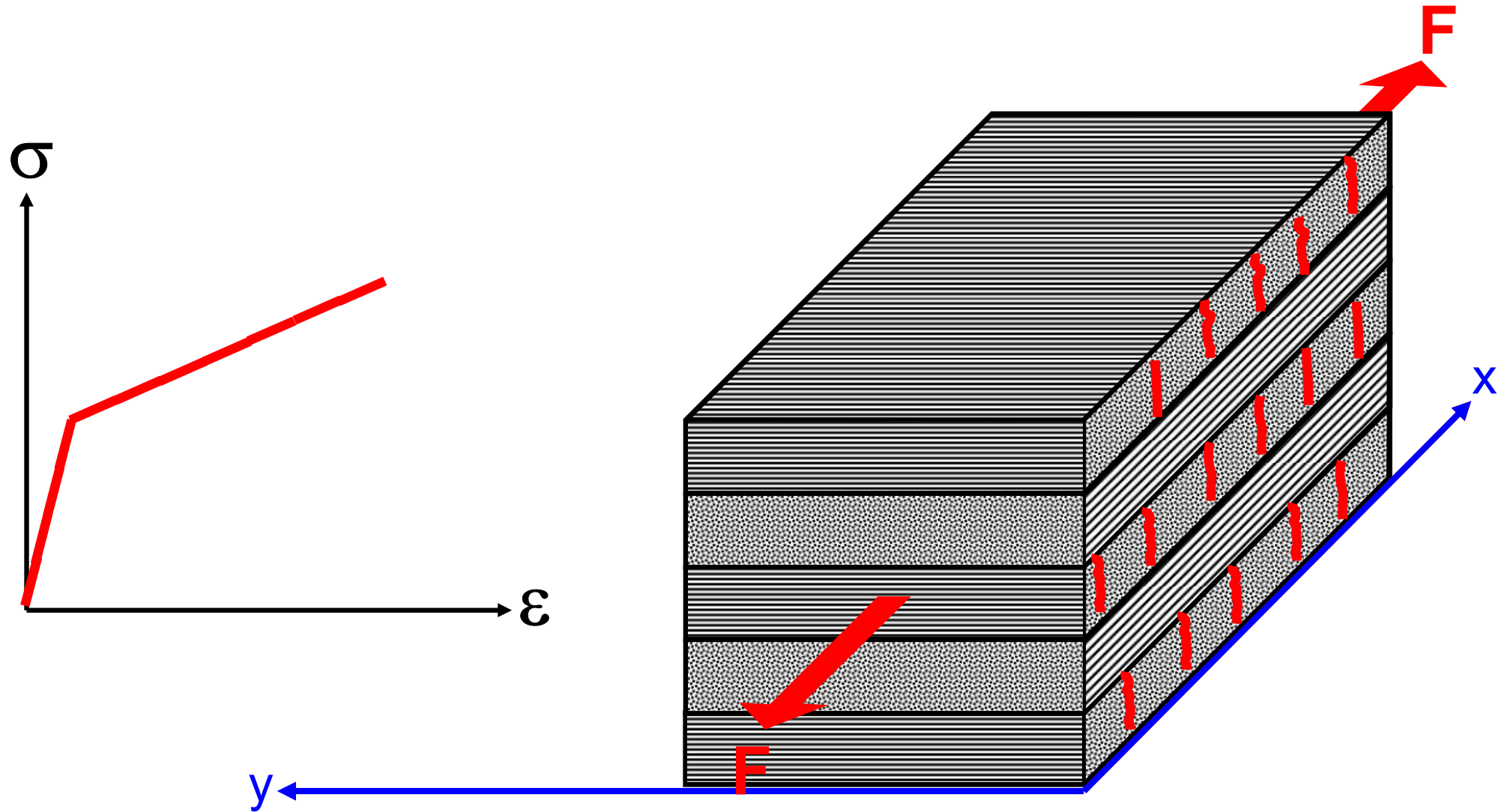
Ply by ply failure analysis



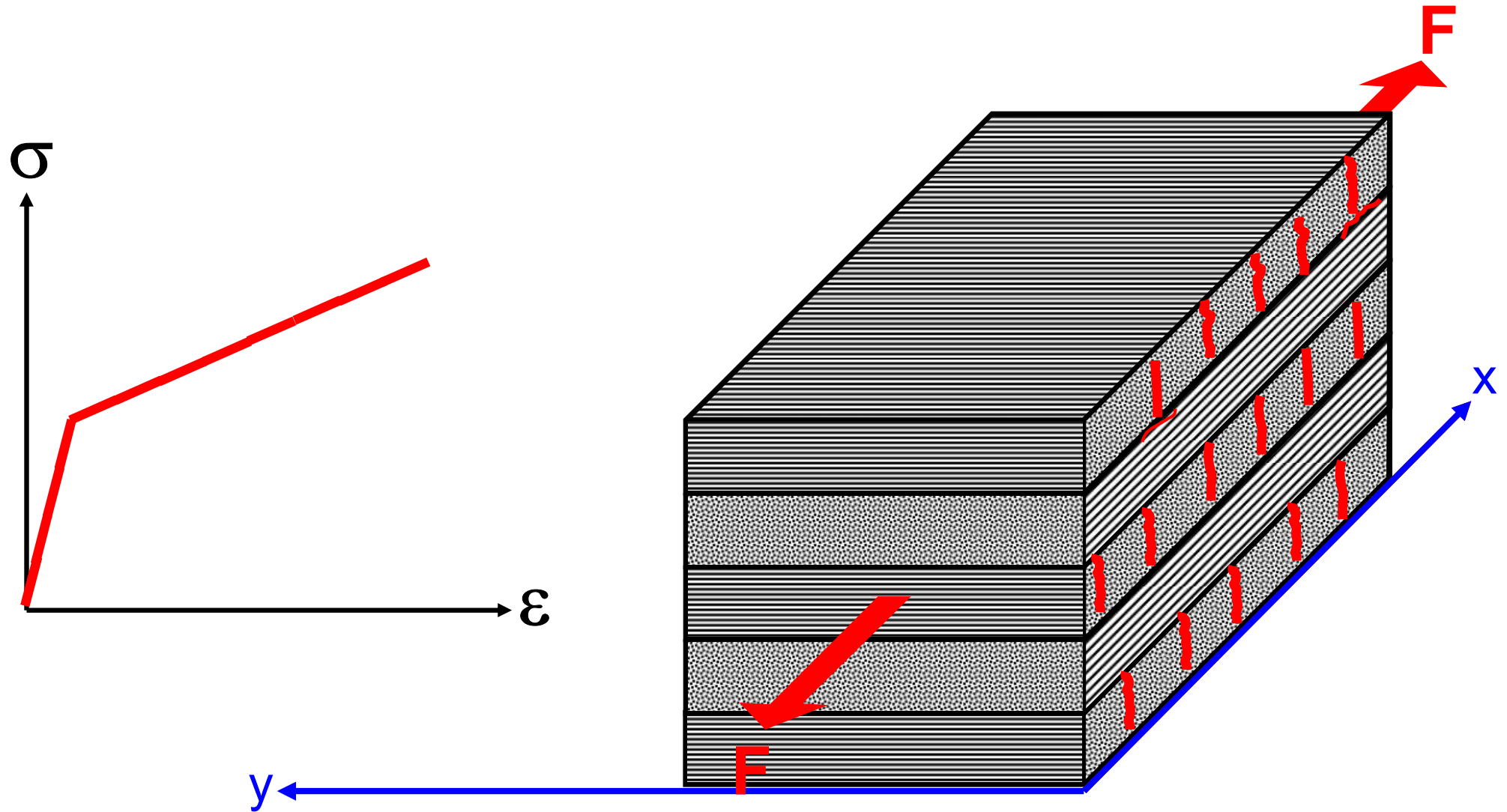
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Ply by ply failure analysis



Ply by ply failure analysis



Ply by ply failure analysis

