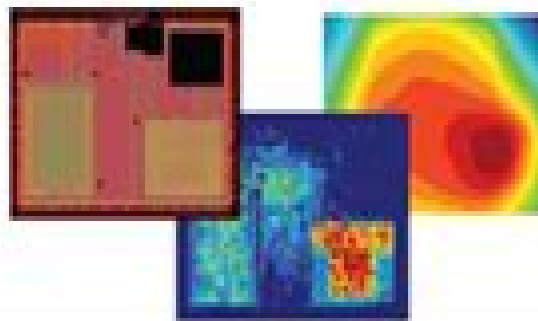
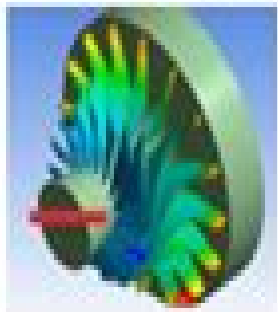
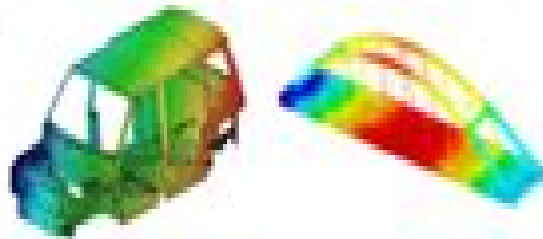
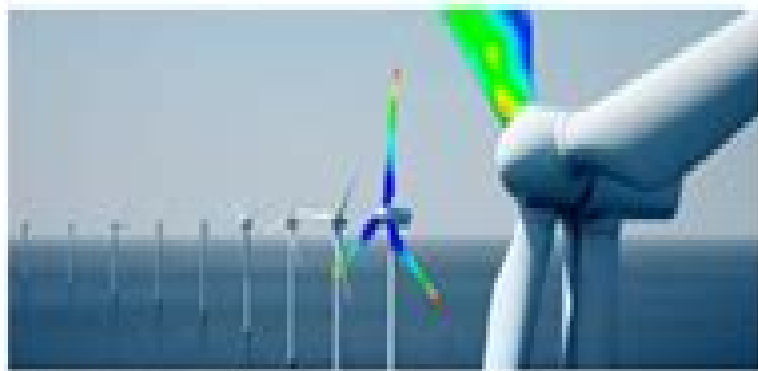
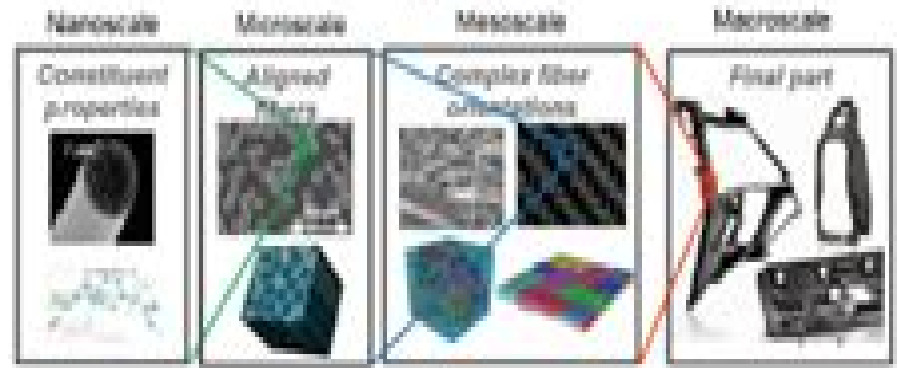


Composite simulations and applications



Modeling



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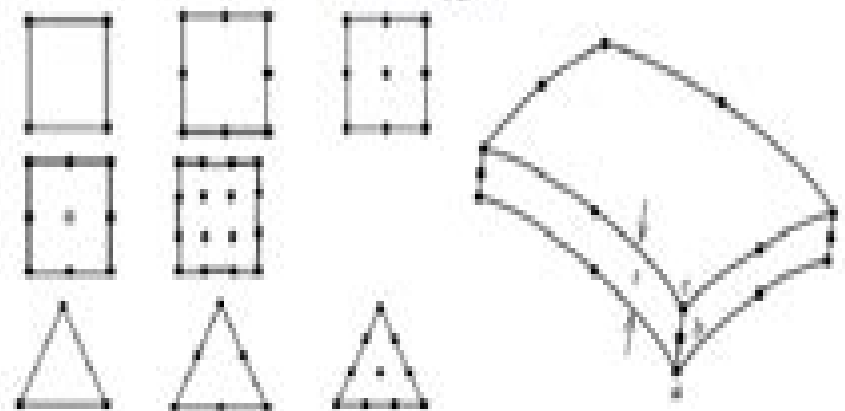
Failure Criteria

Constitutive Law

$$\begin{aligned}
 & -X_c < \sigma_1 < X_t, -X_c < \sigma_2 < X_t, |\tau_{12}| < S \\
 & \frac{\sigma_1^2}{X_t^2} + \frac{\sigma_2^2}{X_c^2} - \frac{\sigma_1 \sigma_2}{X_t X_c} + \frac{\tau_{12}^2}{S^2} \leq 1 \quad + \quad \begin{pmatrix} \sigma_x \\ \sigma_y \\ \sigma_z \\ \tau_{xy} \\ \tau_{yz} \\ \tau_{zx} \end{pmatrix} = \begin{pmatrix} Q_{11} & Q_{12} & Q_{13} & Q_{14} & Q_{15} & Q_{16} \\ Q_{12} & Q_{22} & Q_{23} & Q_{24} & Q_{25} & Q_{26} \\ Q_{13} & Q_{23} & Q_{33} & Q_{34} & Q_{35} & Q_{36} \\ Q_{14} & Q_{24} & Q_{34} & Q_{44} & Q_{45} & Q_{46} \\ Q_{15} & Q_{25} & Q_{35} & Q_{45} & Q_{55} & Q_{56} \\ Q_{16} & Q_{26} & Q_{36} & Q_{46} & Q_{56} & Q_{66} \end{pmatrix} \begin{pmatrix} \epsilon_x \\ \epsilon_y \\ \epsilon_z \\ \gamma_{xy} \\ \gamma_{yz} \\ \gamma_{zx} \end{pmatrix} \\
 & \sigma_{ac} = \left(\frac{\epsilon_x}{\epsilon_{x,c} - \epsilon_{x,t}} \right)^2 + \left(\frac{\epsilon_y}{\epsilon_{y,c} - \epsilon_{y,t}} \right)^2
 \end{aligned}$$

+

Element Types



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J Rink



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