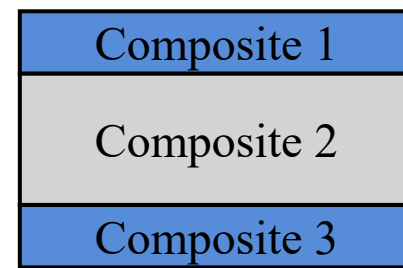
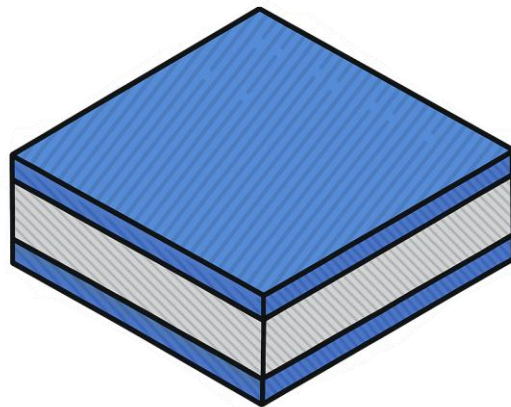


ABD: stack of layers



ABD: stack of ABDs

Discrete-Homogenized Layers Approach

Homogenization of each composite

Stack of three layers

Design variables

Thicknesses

Stiffness

Layer-based

Multi-Parametric Approach

Modularization

Stack of independent composites

Design variables

Composite-dependent

Stiffness

Composite-based