

Nano-scale Model



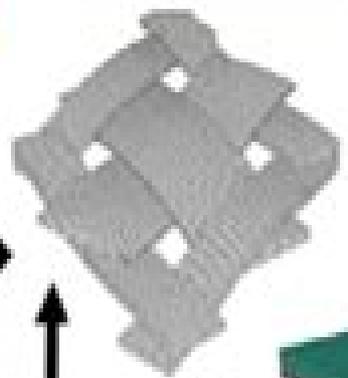
Micro-scale Model



Fibre & Matrix properties

Computational Micro-Mechanics

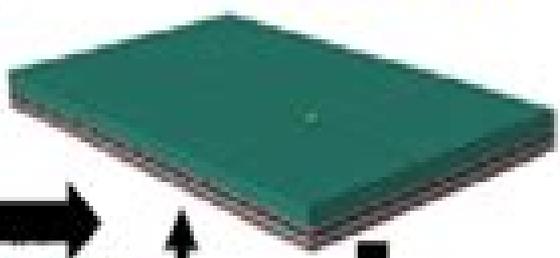
Meso-scale Model



Ply properties

Computational Meso-Mechanics

Macro-scale Model



Laminate properties

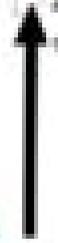
Computational Macro-Mechanics

Structural component



Structural properties

System Mechanics



# Finite Element Modeling Of Composite Materials And Structures

**SJ Ball**



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