

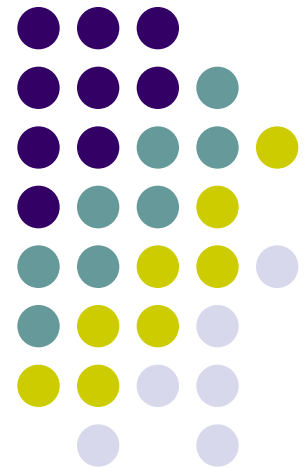
# 計算固體力學目前與未來的 發展趨勢

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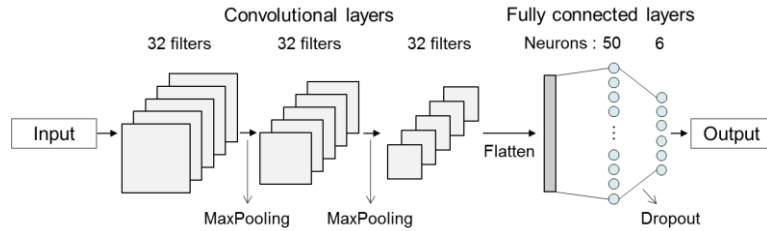
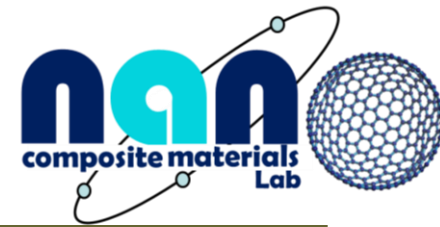
ACMT Opening

Oct 22, 2022 NTU, Taiwan

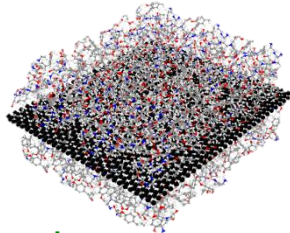




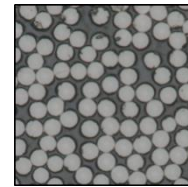
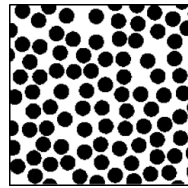
# Introduction



- Multi-scale simulation
- Failure simulation, life prediction
- Coupling effect for complex material systems
- Phase transformation
- Multi-functional properties

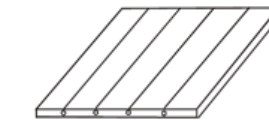


Composites



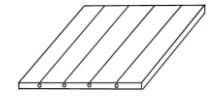
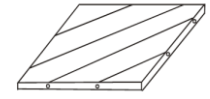
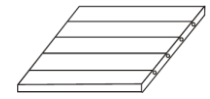
Fiber and Matrix

Micromechanical Approach



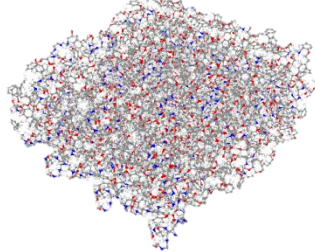
Unidirectional Composites

Macromechanical Approach



Multidirectional Composites (Laminates)

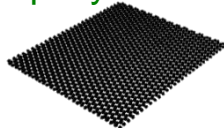
Representative Epoxy



Nanoclay



Graphene





A scenic view of the National Yang Ming Chiao Tung University campus. In the foreground, a large, calm lake reflects the sky and surrounding greenery. A stone railing runs along the edge of the water. In the middle ground, a lush green lawn is dotted with various trees, including a prominent weeping willow. A small, covered pavilion with several columns stands on the lawn. In the background, several modern, multi-story university buildings are visible, including a tall, white clock tower with a circular emblem near the top. The sky is bright blue with scattered white clouds. The overall atmosphere is peaceful and well-maintained.

**Thank you for your attention!**