

Yoshikawa Lab.

[New Frontiers of Solid Mechanics via Simulation Integrated Material Testing]

Center for Research on Innovative Simulation Software

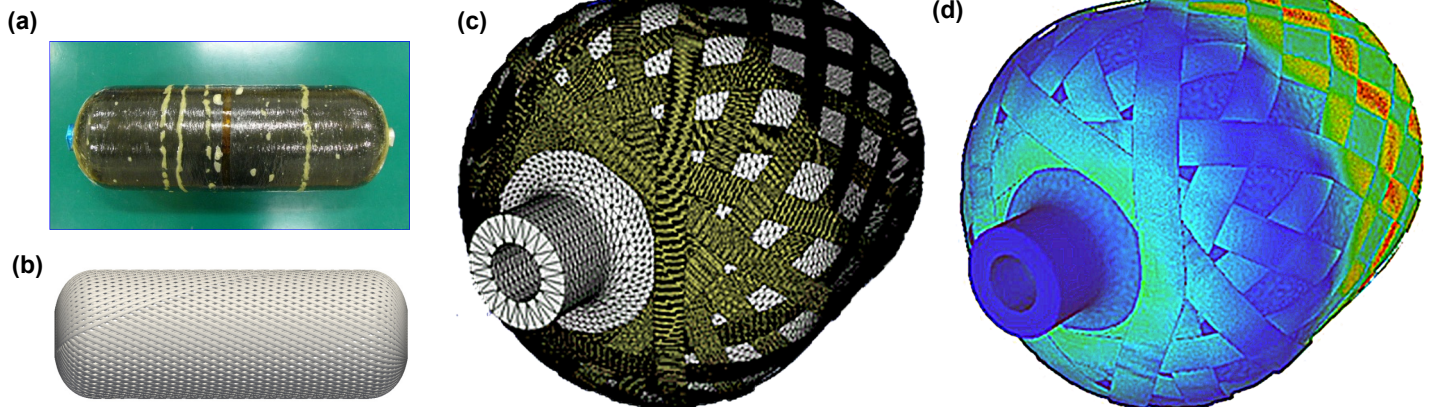
<http://www.young.iis.u-tokyo.ac.jp>

Multi-scale solid mechanics

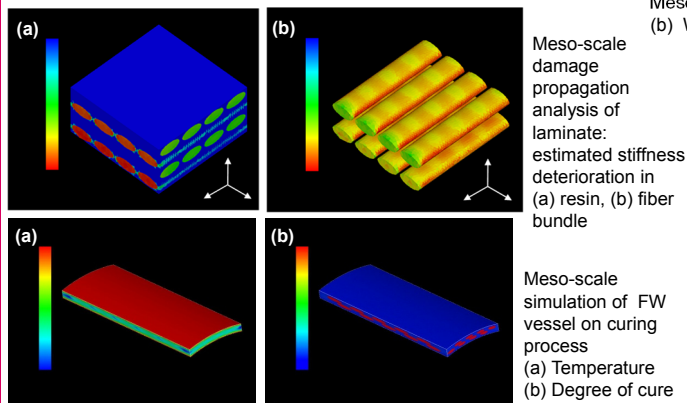
Graduate school of engineering, Department of Mechanical Engineering

New Frontiers of Solid Mechanics via Simulation-Integrated Material Testing

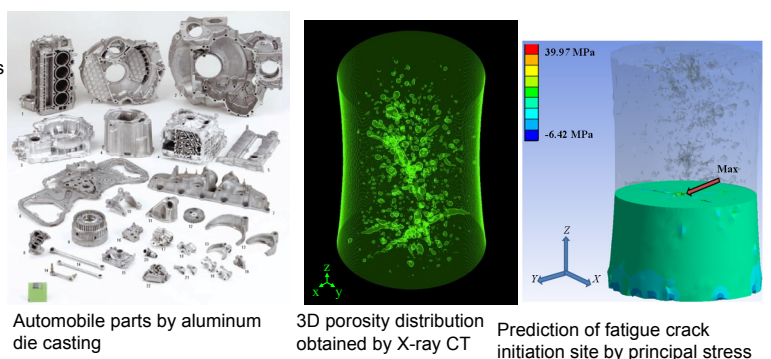
Carbon Fiber Reinforced Plastic (CFRP)



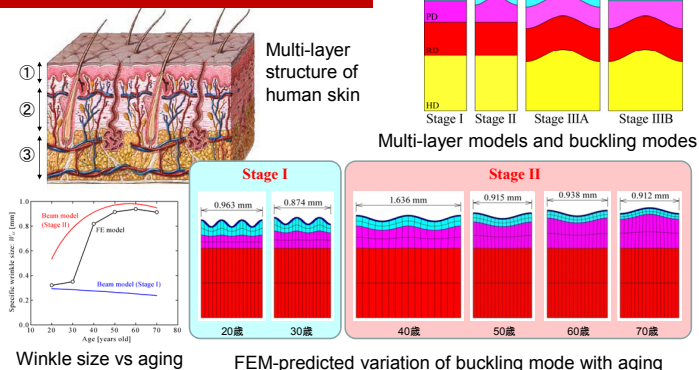
Meso-scale modeling of high pressure hydrogen tank for fuel-cell vehicle (a) Type III FRP vessel (b) Winding model (c) FEM model (d) Mises stress distribution



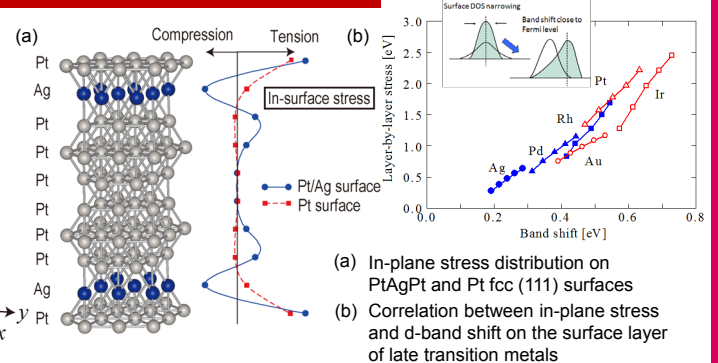
Aluminum die cast



Mechanics of human skin



Stress in atomistic scale



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