

MECH 548. CELLULAR MATERIALS IN NATURAL AND ENGINEERING STRUCTURES.

Credits: 3

Offered by: Mechanical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Overview of hierarchical solids exhibiting cellular structure. Cell size, shape and topology of bending and stretching dominated materials, including periodic microtruss lattice, plant cellular tissue and trabecular bone. Theories for modelling the mechanics and the physical properties; design and optimization of multifunctional cellular solids for ultralight aerospace and biomedical applications.

- (3-0-6)
- Prerequisites: MECH 210, MIME 260 or MIME 261, or permission of instructor

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