

MECH 566. FLUID-STRUCTURE INTERACTIONS.

Credits: 3

Offered by: Mechanical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Pipes and cylindrical shells containing flow: fundamentals and applications in ocean mining, Coriolis mass-flow meters, heat exchangers, nuclear reactors and aircraft engines; chaos. Cylinders in axial flow and in cross-flow; vortex-shedding and galloping. Cylinder arrays in cross-flow; fluidelastic instabilities. Owalling of chimneys.

- (3-0-6)
- Prerequisite: MECH 315 or MECH 419 or equivalent.

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