

MECH 661. FINITE ELEMENT METHODS IN COMPUTATIONAL FLUID DYNAMICS.

Credits: 4

Offered by: Mechanical Engineering (Graduate Studies)

This course is not offered this catalogue year.

Description

The Finite Element Method, assembly rules, solution of linear systems. The direct approach. The variational approach. The weighted residual approach: Rayleigh-Ritz, least-squares, sub-domain and collation, weak-Galerkin formulation. Elements and interpolation functions. Classification of differential equation systems. Formulation and applications for incompressible, compressible and transonic inviscid and viscous flows.

- Prerequisite: MECH 610.

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