



Locations:

Livermore Software Technology Corp.
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Introduction to LS-TaSC®

Instructor: Imtiaz Gandikota

1 Day - \$200, Students \$100 w/student ID

Includes on-site continental breakfast, lunch, breaks and class notes

Includes 30-day demonstration license for practice

Prerequisite: An introductory class, or equivalent knowledge in LS-DYNA is recommended

Description: This 1 day class provides an introduction to the use of the topology optimization and shape computation code (LS-TaSC) for design. It covers both theoretical concepts and practical aspects of topology optimization. The course includes workshop sessions in which the theoretical topics of the day are applied. The LS-TaSC graphical user interface is used to teach input preparation and post-processing.

Contents:

- Introduction to topology optimization using industrial examples
- LS-TaSC features
- Theory:
 - Optimization formulation
 - SIMP penalization
 - Global and local optimization
 - Design filtering
 - Constrained optimization using multi-point method
 - Termination criteria
- Setting up and running a simple topology optimization example
- Design parts with solids and shell elements
- Topology optimization using multiple load cases and multiple parts
- Free surface design
- Post-processing of results