

SolidWorks Flow Simulation 2012 Training Course



Course Outline Duration: 2 days • Prerequisites: SolidWorks Essentials and SolidWorks Simulation.

LESSON 1 Basics of Fluid Flow
LESSON 2 Running

LESSON 3 Flow Features
LESSON 4 Advanced Features within SolidWorks Flow Simulation

Training Content

LESSON 1

Basics of Fluid Flow

- Fluid Flow Definitions
- Governing Equations
- Meshing principles
- Monitoring convergence

LESSON 2

Running

- Meshing concerns
- Modeling concerns
- Applying boundary conditions
- Post-processing (vectors, contours, iso-lines, particle tracking)
- Global data (mass/energy balance, bulk values, et cetera)
- Analysis Types
- Steady State
- Transient
- Conjugate heat transfer
- Open/closed systems

LESSON 3

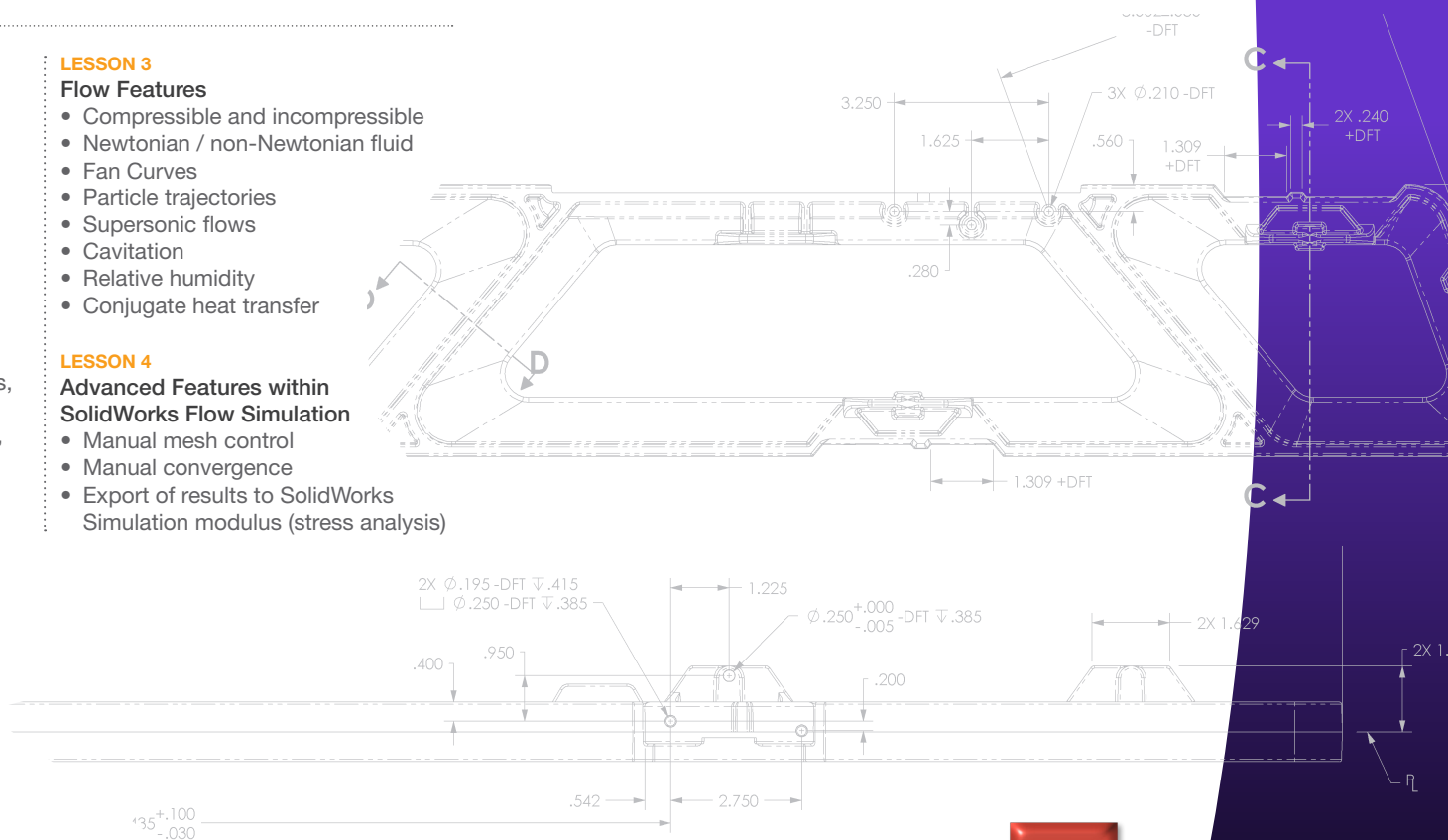
Flow Features

- Compressible and incompressible
- Newtonian / non-Newtonian fluid
- Fan Curves
- Particle trajectories
- Supersonic flows
- Cavitation
- Relative humidity
- Conjugate heat transfer

LESSON 4

Advanced Features within SolidWorks Flow Simulation

- Manual mesh control
- Manual convergence
- Export of results to SolidWorks Simulation modulus (stress analysis)



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SOLIDWORKS
LET'S GO DESIGN

