

Optimization Techniques in MATLAB

OEM: MathWorks • Duration: 1 Day (8 hrs) • Code: MW-OPTIMIZATION-TECHNIQUES-IN-MATLAB

COURSE MODULES & TOPICS

Day 1 of 1

Running an Optimization Problem

- Identifying the problem components
- Running an optimization using the Live Editor Optimization Task
- Applying the optimization process
- Using optimization functions

Specifying Objective Functions and Constraints

- Using the problem-based workflow
- Specifying objective functions and constraints
- Identifying different types of constraints

Solvers and Performance

- Classifying the objective
- Choosing a solver and algorithm
- Examining and interpreting the result
- Use derivative information

Global and Multiobjective Optimization

- Finding the global minimum
- Using genetic algorithms, direct search methods and surrogate optimization
- Use multiobjective solvers