

## OPTIMIZATION TECHNIQUES

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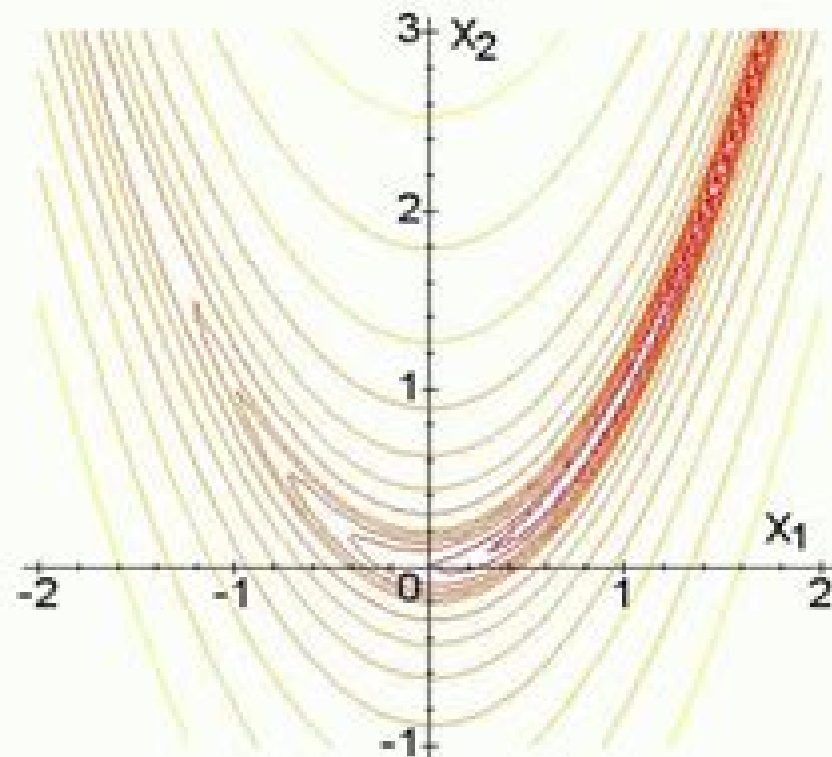
### Numerical optimization techniques. Example 1.

Unconstrained multi-parameter optimization techniques.

Difficulties in typical problems.

Rosenbrock's "banana" function

$$F = 100(x_2 - x_1^2)^2 + (x_1 - 1)^2$$



Levels: 0.5,1,2,3,4,5,10,20,40,80,160,320,640

# Numerical Optimization Techniques For Engineering Design

**S Nieto**



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