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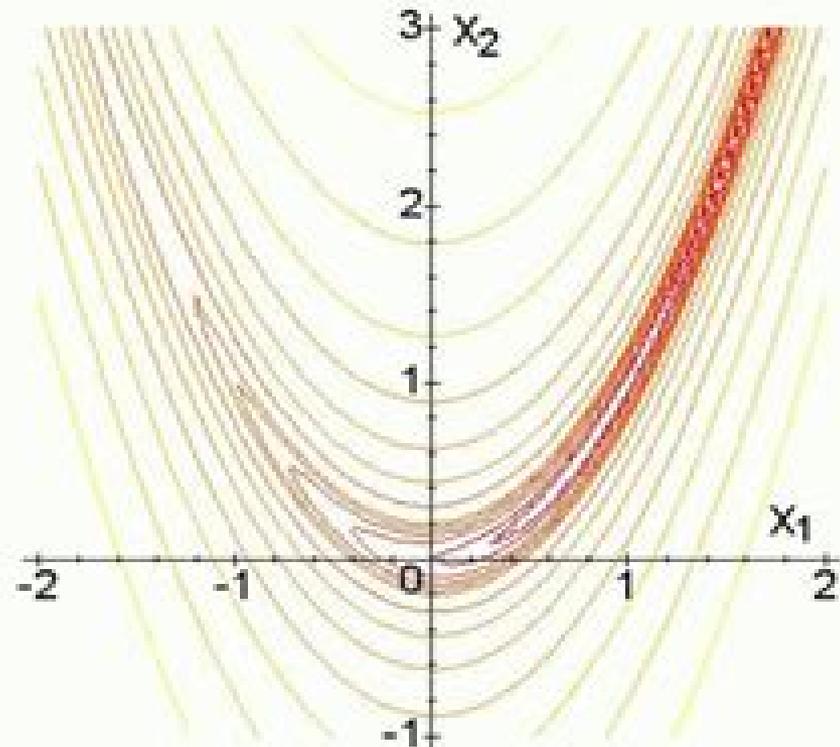
Numerical optimization techniques. Example 1.

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 Solution

**Chinyere Okechi Onwubiko**



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