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2. Optimization Problems

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Classical method (Problem) Optimization Techniques BISECTION

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Numerical Optimization in Engineering and Sciences ...

As discussed in Chapter 3, numerical optimization techniques can be categorized as gradient-based and nongradient algorithms.

Gradient-based algorithms often lead to a local optimum.

Nongradient algorithms usually converge to a global optimum, but they require a substantial amount of function evaluations.

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Numerical Optimization - an overview | ScienceDirect Topics
G. N. Vanderplaats, *Numerical Optimization Techniques for Engineering Design with Applications*, McGraw-Hill Inc., New York, 1984. has been cited by the following article: TITLE: Theoretical and Experimental Analysis of Deep Drawing Cylindrical Cup. AUTHORS: Najmeddin Arab, Abotaleb Javadimanesh

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Space mapping is a concept for modeling and optimization of an engineering system to high-fidelity (fine) model accuracy exploiting a suitable physically meaningful coarse or surrogate model. In a number of subfields, the techniques are designed primarily for optimization in dynamic contexts (that is, decision making over time):

Mathematical optimization - Wikipedia

G. Allaire and A. Craig: Numerical Analysis and Optimization: An Introduction to Mathematical Modelling and Numerical Simulation.

K. J. Bathe: Numerical methods in finite element analysis, Prentice-Hall (1976). Thomas J.R. Hughes: The Finite Element Method: Linear Static and Dynamic Finite Element Analysis, Prentice-Hall (1987).

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Finite element method - Wikipedia

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Kutta method. Q2. Jacobi's method is also known as.

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