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function, subject to inequality constraints. Some suggested minimization techniques for solving such problems are briefly described. Two reasonably complex examples, using these methods, are presented: the first details the design of an underwater sonar system and the second describes the design of a wideband crystal filter.

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design in some way. The process of determining the best design is called optimization. Thus we may wish to design the smallest heat exchanger that accomplishes the desired heat transfer, or we may wish to design the lowest-cost bridge for the site, or we may wish to maximize the load a robot can lift. Often engineering optimization is done implicitly.

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Design optimization is an engineering design methodology using a mathematical formulation of a design problem to support selection of the optimal design among many alternatives. Design optimization involves the following stages:

Variables: Describe the design alternatives

Objective: Elected functional combination of variables

Constraints: Combination of Variables expressed as equalities or inequalities that must be satisfied for any acceptable design alternative

Feasibility: Values for set of va

~~Design optimization~~—Wikipedia

Nonlinear optimization techniques with applications in various aspects of engineering design. Terminology, problem formulation, single and multiple design variables, constraints,

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Arora, S., Singh, S. and Yetilmezsoy, K. [2018] "A modified butterfly optimization algorithm for mechanical design optimization problems," Journal of the Brazilian Society of

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Mechanical Sciences and Engineering
40(1), 21. Crossref, Google Scholar

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