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classification, we distinguish the following
three branches of shape optimization: (i)
sizing optimization: a typical size of a
structure is optimized (for example, a

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thickness distribution of a beam or a plate);
(ii) shape optimization itself: the shape of a structure is optimized without changing the topology;

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theory, approximation ...

Shape optimization is part of the field of optimal control theory. The typical problem is to find the shape which is optimal in that it minimizes a certain cost

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functional while satisfying given constraints. In many cases, the functional being solved depends on the solution of a given partial differential equation defined on the variable domain.

Shape optimization - Wikipedia

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UNIVERSITY. Besides language and music, mathematics is one of the primary manifestations of the free creative power of the human mind. — Hermann Weyl.

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optimization problems are solved numerically, by some iterative method. But also some gradient information is needed.

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