



# Variational Methods in Shape Optimization Problems: 65 (Progress in Nonlinear Differential Equations and Their Applications)

*Dorin Bucur, Giuseppe Buttazzo*

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The study of shape optimization problems encompasses a wide spectrum of academic research with numerous applications to the real world. In this work these problems are treated from both the classical and modern perspectives and target a broad audience of graduate students in pure and applied mathematics, as well as engineers requiring a solid mathematical basis for the solution of practical problems.

Key topics and features include:

- Presents foundational introduction to shape optimization theory
- Poses several open problems for further research
- Substantial bibliography and index

Driven by good examples and illustrations and requiring only a standard knowledge in the calculus of variations, differential equations, and functional analysis, the book can serve as a text for a graduate course in computational methods of optimal design and optimization, as well as an excellent reference for applied mathematicians addressing functional shape optimization problems.

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