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It combined the level-set method with the shape sensitivity analysis framework. On the other hand, the work focused on structural optimization within the context of two-dimensional linear elasticity. The shape of the structure was the free boundary which was captured on a fixed mesh using the

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immersed interface
method.

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The book is a welcome,
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the literature in the area
and it is a must as a
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any research group working in sensitivity analysis and design optimization." (Martin P. Bendsøe, Structural Multidisciplinary Optimization, Vol. 32, 2006)

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Structural Sensitivity

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Structural Optimization 1: Linear

...

In the sensitivity analysis process, the derivatives of the modal energies of the acoustic subsystem with respect to the structural modal information are deduced in an analytical form.

Next, the complex variable method is integrated into the

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analytical sensitivity formulation in order to calculate the derivatives of the structural modal information with respect to structural thicknesses.

Midfrequency Structural/Acoustic Optimization with a ...

Sensitivity is used to calculate the sensitivity of structural response to each design variable, to

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reflect the influence of structural design variables on structural performance, and to find the most sensitive parts.

This method is more targeted in obtaining design variables and greatly improves the optimization efficiency.

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