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Lecture (7)| Sensitivity Analysis

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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 immersed interface method.

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STRUCTURAL SHAPE DESIGN SENSITIVITY ANALYSIS AND OPTIMIZATION USING MESHFREE METHOD K.K. Choi, N.H. Kim, and K.Y. Yi Center for Computer-Aided Design College of Engineering The University of Iowa Workshop on Meshfree Methods November 4, 2000

STRUCTURAL SHAPE DESIGN SENSITIVITY ANALYSIS AND ...
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Methods of Design Sensitivity Analysis in Structural ...
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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 analytical sensitivity formulation in order to calculate the derivatives of the structural modal information with respect to structural thicknesses.

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