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An isogeometric approach of two dimensional acoustic design sensitivity analysis and topology optimization analysis for absorbing material distribution

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### **Research Highlights**

1. Applying wideband fast multipole method to isogeometric BEM based on Burton-Miller with non-singular boundary integral.
2. Structural shape optimization based on isogeometric BEM and OC method for acoustic problems.
3. Absorbing material distribution optimization based on BEM and SIMP method.

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