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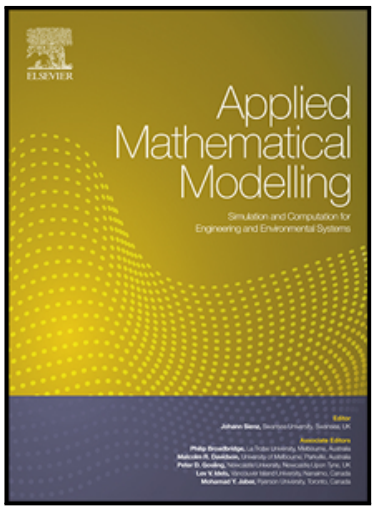

Far-field directivity of parametric loudspeaker arrays set on curved surfaces

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Highlights

- Parametric loudspeaker arrays exploit nonlinear wave propagation to generate focused sound
- The convolution model predicts the far-field directivity of planar parametric loudspeaker arrays
- The convolution model is extended to parametric loudspeaker arrays set on curved surfaces
- The extended model is applied to spherical omnidirectional parametric loudspeakers
- The performance of different distributions of transducers for omnidirectional loudspeakers is analyzed

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