

# Modal Array Signal Processing: Principles and Applications of Acoustic Wavefield Decomposition (Lecture Notes in Control and Information

## **Sciences**)

Heinz Teutsch



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This book deals with the problem of detecting and localizing multiple simultaneously active wideband acoustic sources by applying the notion of wavefield decomposition using circular and spherical microphone arrays. A rigorous derivation of modal array signal processing algorithms for unambiguous source detection and localization, as well as performance evaluations by means of measurements using an actual real-time capable implementation, are discussed.

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