



Detección, estimación y problemas inversos con sistemas sonar [

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text (article)

Analítica

The present work introduces the reader to the basic theory used to optimally extract and process information in passive and active sonar systems. In particular, the typical problems addressed when implementing sonar technology systems are reviewed. The work also covers the basic statistical theory that is used in acoustic signal processing and the behavior of the receiving operating characteristics (ROC) when dealing with probability density functions for noise and signal in presence of noise with varying standard deviations. Finally, we review the underlying theory of inverse problems and model based matched field processing that will be implemented in a future visualization system for under water applications

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