

Regularized discriminant analysis for high dimensional data

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Outline

- 1 Introduction
- 2 Problems associated with Lamb-wave

Structural Health Monitoring

- Structural health monitoring is the science that combines conditional monitoring and preventive maintenance.
- This research focuses on using Lamb-wave sensors.
- Lamb wave are guided ultrasonic waves.

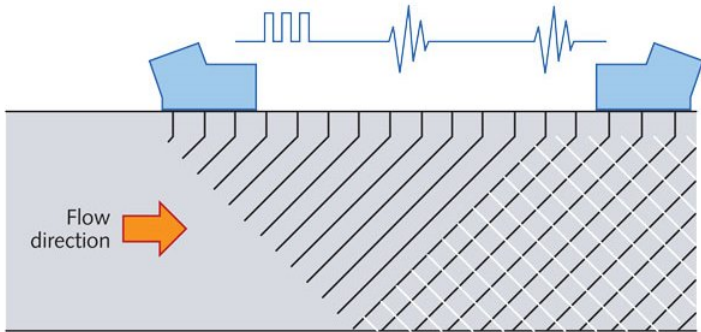


Figure: Schematic of actuator-sensor pair

Lamb-wave propagation

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Challenges

- High dimensional.
- Significant loss of information during feature. extraction process.
- Use of multisensors can significantly improve the diagnosis process.