DESCRIPTION

This journal provides a forum for scholarly work dealing primarily with probabilistic and statistical approaches to contemporary solid/structural and fluid mechanics problems encountered in diverse technical disciplines such as aerospace, civil, marine, mechanical, and nuclear engineering. The journal aims to maintain a healthy balance between general solution techniques and problem-specific results, encouraging a fruitful exchange of ideas among disparate engineering specialities.

From time to time, review papers will be published to provide research and development oriented readers with state-of-the-art analyses of various areas of current interest. In addition, occasional papers of tutorial nature help enhance practice oriented readers’ knowledge of the basic probabilistic and statistical techniques that are essential in present-day engineering practice design.

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- Damage-tolerant and durability design of aircraft
- Load spectra characterisation
- Random vibration of aerospace structures

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- Offshore structures response to wind-induced waves
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• Vibration isolation

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Common to all disciplines:
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• Damage mechanics
• Monte Carlo simulation
• Random fields
• Stochastic finite elements
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• System reliability.

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