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ISSN: 0266-8920

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.

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In consultation with the [editors](#), distinguished members of the **probabilistic mechanics** community may serve as guest editors for a special issue dedicated to a particular theme.

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

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- Natural hazards such as earthquakes, hurricanes, and waves
- Stochastic fluid mechanics/hydrology
- Structural response/control under natural hazards

Marine engineering:

- Offshore structures response to wind-induced waves
- Ship motion in a random sea

Mechanical engineering:

- Fatigue design
- Mechanical systems response/control
- Vehicle vibration

- Vibration isolation

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- Structural and equipment response to accidental loads

Common to all disciplines:

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- Random fields
- Stochastic finite elements
- Stochastic optimization
- System reliability.

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