



PROBABILISTIC ENGINEERING MECHANICS

AUTHOR INFORMATION PACK

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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.

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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- Geotechnical applications
- 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

Nuclear engineering:

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- Structural and equipment response to accidental loads

Common to all disciplines:

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- Damage mechanics
- Monte Carlo simulation
- Random fields
- Stochastic finite elements
- Stochastic optimization
- System reliability.

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