SOIL DYNAMICS AND EARTHQUAKE ENGINEERING

DESCRIPTION

The journal aims to encourage and enhance the role of mechanics and other disciplines as they relate to earthquake engineering by providing opportunities for the publication of the work of applied mathematicians, engineers and other applied scientists involved in solving problems closely related to the field of earthquake engineering and geotechnical earthquake engineering.

Emphasis is placed on new concepts and techniques, but case histories will also be published if they enhance the presentation and understanding of new technical concepts.

Fields Covered:

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- Seismic analysis and design of steel and reinforced concrete structures, retaining walls, dams, slopes.
- Effect of moving loads on bridges and pavements and vibration isolation in geotechnical structures.
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- Instrumentation and experimental methods in earthquake engineering.
- Applied mathematical methods for earthquake engineering analysis and design Numerical methods (mainly finite elements and boundary elements) for linear and non-linear earthquake analysis and design.
- Performance-based seismic design of structures.

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ISSN: 0267-7261
Probabilistic methods in earthquake engineering including risk analysis and reliability Earthquake case histories and lessons learned from catastrophic ground motions.

AUDIENCE

Applied mathematicians and engineers in the area of earthquake and geotechnical engineering.

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