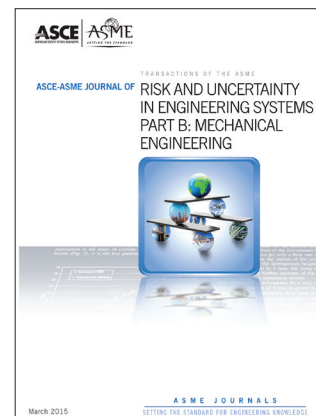


ASCE-ASME Journal of Risk and Uncertainty In Engineering Systems: Part A: Civil Engineering and Part B: Mechanical Engineering

The American Society of Mechanical Engineers (ASME) and The American Society of Civil Engineers (ASCE) are pleased to present the ASCE-ASME Journal of Risk and Uncertainty In Engineering Systems addressing risk and uncertainties in both the mechanical and civil engineering aspects of engineered systems. The journal focuses on presenting state-of-the-art research and best practices for ensuring full discussion on risk and uncertainty related issues and meet the needs of the researchers and engineers to address risk, disaster and failure-related challenges due to many sources and types of uncertainty in planning, design, analysis, construction, manufacturing, operation, utilization, and life-cycle management of existing and new engineering systems. Concepts and methods include: risk methods, uncertainty analysis and quantification, reliability, safety, economic valuation, management, financial and insurance issues, computational methods, systems, resilience and sustainability.



Topic Coverage

PART A: CIVIL ENGINEERING

- Civil infrastructure including buildings and other structures
- Coastal engineering, including coastal and ocean systems
- Construction engineering and project management
- Economics, finance and social consideration
- Reliability, resilience, flexibility, and sustainability
- Environment & water resources, including climate change and adaptation
- Lifecycle analysis and management
- Transportation and lifelines
- Underground systems, materials and construction
- Liability, policy and decision making
- Cyber security and information assurance

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PART B: MECHANICAL ENGINEERING

- Lifecycle analysis and management
- Mechanical assets and infrastructure
- Bioengineering and human/operator behaviors
- Energy systems, including nuclear, gas, and renewable sources and manufacturing
- Information storage and processing
- Economics, finance and social consideration
- Reliability, resilience, flexibility, and sustainability
- Materials and electromechanics
- Robotics, automation and control
- Liability, policy and decision making
- Sensor performance and sensor networks
- Decision-based design theory and methods

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