



NATURAL HAZARDS AND INFRASTRUCTURE SYSTEMS

This presentation introduces a general risk assessment process to support managers of complex infrastructure systems to understand, model and quantify the risks of their systems affected by natural hazards. This process is supported by novel engineering tools, including models for simulations of spatial-temporal hazards, consequences, and recovery of infrastructure components and systems. Innovative approaches from the field of network science are introduced to address the interdependencies between different infrastructure systems and their dynamical relationships. The presentation also includes a broader discussion of interdisciplinary considerations that should be accounted for, in order to achieve sustainable and resilient infrastructure systems.

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