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A Control-Guided Failure Restoration Framework for the Design of Resilient Engineering Systems

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Highlights

- Presented a new framework for the design of resilience engineering systems;
- Developed a new control theory guided failure restoration mechanism in design;
- Integrated dynamic system modeling, control and resilience analysis for design;
- Employed an AI-based technique for implicit system dynamics modeling;
- Conducted a case study of power transmission system design for resilience.

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