

Highlights

▶ Propose a graphical model for the understanding of the resilience process. ▶ Mathematical description of resilience as a function of time. ▶ Identification of necessary concepts to define and evaluate network resilience. ▶ Development of cost and time to recovery metrics based on resilience formulation.

Keywords

Network analysis; System resilience; Quantitative methods; Restoration

Figures and tables from this article:

Fig. 1. System state transition in resilience.	Figure options



Corresponding author. Tel.: +12012168003. Copyright©2011 Elsevier Ltd. All rights reserved.