Accepted Manuscript

Modeling the Damage and Recovery of Interdependent Critical Infrastructure Systems from Natural Hazards

Xian He , Eun Jeong Cha

PII: S0951-8320(16)30097-7
DOI: 10.1016/j.ress.2018.04.029
Reference: RESS 6148

To appear in: *Reliability Engineering and System Safety*

Received date: 1 June 2016
Revised date: 1 December 2017
Accepted date: 27 April 2018

Please cite this article as: Xian He , Eun Jeong Cha , Modeling the Damage and Recovery of Interdependent Critical Infrastructure Systems from Natural Hazards, *Reliability Engineering and System Safety* (2018), doi: 10.1016/j.ress.2018.04.029

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights:

- An integrated network model for civil infrastructure systems was proposed.
- The proposed model builds upon the Dynamic Inoperability Input-output model.
- The model incorporates critical nodes and facility-level dependency relationships.
- Electric power, water and telecommunication systems were used for the model.
- Damage and recovery of interdependent civil infrastructure systems were modeled.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/7195121

Download Persian Version:

https://daneshyari.com/article/7195121

Daneshyari.com