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Lewis, Ted

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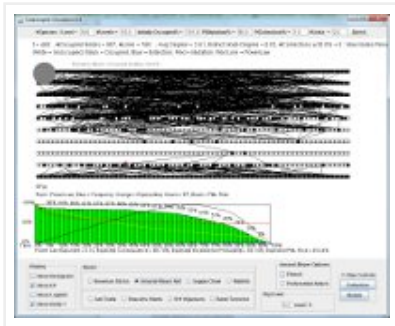
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# CHDS/Ed Learning Materials from the NPS Center for Homeland Defense and Security

## Catastrophe7



Simulation/software — .  
Ted Lewis.

Three simulations: Sticks,  
Amaral-Meyer, and Random  
Catastrophes. Sticks illustrates  
how systems fail due to outside

incidents. Amaral-Meyer illustrates intrinsic failure (internal faults), and Random Catastrophes illustrates how any layered system fails due to random or normal accidents. Concepts: self-organized criticality, power laws, and exceedence probability.

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**Ted Lewis**

**October 19, 2012**

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