

**Sudan University of Science and  
Technology**

**College of Graduate Studies**

**Fault Detection, Classification  
and Location in Power  
Transmission Line System  
using Artificial Neural  
Networks**

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*A Thesis Submitted in Partial Fulfillment to the Requirements  
for the Degree of M.Sc. in Electrical Engineering  
(Microprocessors and Control)*

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*March 2011*