

*Sudan University of Science and Technology*

*College of Graduate Studies*

**Impact of Shunt-flexible AC Transmission  
System on Distance Protection of transmission  
Lines**

**أثر نظام نقل التيار المتردد المرن في الحماية المسافية لخط النقل**

A thesis submitted in partial fulfillment for the requirement of  
the degree of Master of Science in electrical engineering  
(power)

Prepared by:

Abubaker Hashim Sidahmed

Supervised by:

Dr. Abdelaziz Yousif Mohamed

May, 2012