



**Sudan University of Science and Technology**



**College of Graduate Studies**

**THE STRUCTURAL PERFORMANCE OF TOWER  
CRANES USING COMPUTER PROGRAM SAP2000-v18**

**الاداء الإنشائي للرافعات البرجية باستخدام برامج الحاسوب SAP2000-V18**

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**Summited By**

**OSAMA SAYED OSMAN SAYED**

**B.Sc. Civil Engineering – Omdurman Islamic University 2013**

**Supervisor:**

**Dr: ABUSAMRA AWAD ATTALEMANAN**

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