



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

**Sudan University of Science and Technology**

**College of Graduate Studies**



## **Geometrically Nonlinear Finite Element Analysis of Cantilever Beams Using MATLAB**

التحليل الهندسي اللاخطي بالعناصر المحددة للعارضات الكابولية باستخدام  
ماتلاب

A thesis Submitted to Department of structural Engineering college  
of Engineering in partial fulfillment of the requirements of the  
degree of Master of Science in Civil Engineering (structures)

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November 2015