



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

**Sudan University of Science and Technology**  
**College of Graduate Studies**  
**School of Civil Engineering**



## **Evaluation of the Effect of Nonlinear Finite Element Analysis of Pin Jointed Dome Roofs**

تقويم أثر التحليل اللاخطي للقباب المفصليه للاسقف باستخدام  
طريقة العنصر المحدد

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