

**Sudan University of Science and Technology**  
**Collage of Graduate Studies**



**Comparison between Elastic and Plastic Design of 2D  
Unbraced Multi-Storey Steel Frames**

**مقارنة بين التصميم المرن واللدن للهيكلات الفولاذية ثنائية الابعاد غير المقيدة  
متعددة الطوابق**

**A Thesis Submitted in Partial Fulfillment for the Requirements of  
MSc Degree in Civil Engineering (Structural Engineering)**

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