

SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY

COLLEGE OF GRADUATE STUDIES

The Study of Behaviour of Pile-Cap in Expansive Soils

(Using a Finite Element Softening Model)

دراسة سلوك وسادة الخازوق في التربة المنتفخة

(باستخدام أنموذج الليونة للعناصر المحددة)

**A Thesis Submitted In Partial Fulfillment Of The
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