



**SUDAN UNIVERSITY OF SCIENCE  
AND TECHNOLOGY  
COLLEGE OF GRADUATE STUDIES**

**Utilization of Tannins Extract of Acacia Seyal Bark  
(Taleh )In Tannage of Leather**

إستخدام مادة التانينات المستخلصة من الطلح في دباغة  
الجلود

**A Thesis Submitted in Fulfillment of The Requirements For  
Degree of Doctor of Philosophy In Chemical Engineering**

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