



**Sudan University of Science and Technology**

**College of Graduate Studies**



**Mineral- Vegetable Combination Tannages and  
Retannages Based on Acacia nilotica (Sunt) Bark  
Powder**

الدباغة المعدنية النباتية المختلطة واعادة الدباغة  
باستخدام بكرة لحاء السنط ( القرض )

A thesis Submitted in Fulfillment for the Requirements  
of the Degree of PhD in Leather Technology (Leather  
Engineering)

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