



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية  
@ ASUNET



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





شبكة المعلومات الجامعية

# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

## قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
علي هذه الأفلام قد أعدت دون أية تغيرات



## يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of  
15-25- c and relative humidity 20-40%

# بعض الوثائق الأصلية تالفة

# بالرسالة صفحات لم ترد بالاصل



**STUDIES OF SOME INDUSTRIAL  
WASTES AND THE POSSIBILITY  
OF APPLICATION IN LEATHER  
FATLIQUORING**

10000

**A THESIS  
SUBMITTED  
FOR  
Ph.D. Degree  
(Chemistry)**

**By  
EI-SHAHAT HASSAN ABDEL-LATIFF  
(M. Sc. Chem. 1995)**

**CHEMISTRY DEPARTMENT  
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**1999**



بسم الله الرحمن الرحيم

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"والله جعل لكم من بيوتكم سكنا  
وجعل لكم من جلود الانعام  
بيوتا تستخفونها يوم ظعنكم  
ويوم اقامتكم ومن اصوافها  
وأوبارها وأشعارها أثشا  
ومتعا الى حين "

صدق الله العظيم

( سورة النحل آية رقم ٨٠ )







Ain- Shams University  
Faculty of Science  
Chemistry Department

**TITLE : Studies of Some Industrial Wastes, and  
the Possibility of Applications in Leather  
Fatliquoring**

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## ABBREVIATIONS

AOCS	American Official Chemists's Society
BOD	Biochemical Oxygen Demand
BTPP	Benzyl Triphenyl Phosphonium Chloride
Cat.	Category
Ce	Catalytic Efficiency
COD	Chemical Oxygen Demand
CTMA	Cetyl Trimethyl Ammonium Bromide
DS	Dissolved Solids
E.S	Egyptian Standard Specification
F/B	Free Fatty Matter / Bound Fatty Matter
g.	Gram
h.	Hour
HLB	Hydrophile - Lipophile Balance
mm.	Millimeter
N.F.O	Neets Feet Oil
Organic N	Organic Nitrogen
PTC	Phase-Transfer Catalyst
$Q^+X^-$	Quaternary Onium Salts
SS	Suspended Solids
SEM	Scanning Electron Microscope
Sec.	Second
TEBA	Triethylbenzyl Ammonium Chlorid
WW	Original Wool Wax
WWa	Prepared Fatliquor



