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شبكة المعلومات الجامعية

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# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

# جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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**A STUDY OF THE DEGRADATION AND  
REGENERATION OF CATION EXCHANGE  
MEMBRANES IN CHLOR-ALKALI CELLS**

**By**

**Hisham Mohamed Tawfik El Azhary**

**Chemical Engineer**

**A Thesis submitted to the  
Faculty of Engineering at Cairo University  
in Partial Fulfilment of the  
Requirements for the Degree of**

**DOCTOR OF PHILOSOPHY**

**In**

**CHEMICAL ENGINEERING**

**FACULTY OF ENGINEERING CAIRO UNIVERSITY**

**GIZA, EGYPT**

**January 2003**

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