

بسم الله الرحمن الرحيم

Sudan University for Science and Technology

College of Graduate Studies

Preparation of De-emulsifiers for Breaking Crude Oil Emulsion

تحضير نازعات المستحلبات لكسر المستحلب في خام البترول

A thesis submitted for the degree of Ph.D. in chemistry

By

Haitham Ali Taha Elhassan

B.Sc. in Chemistry

M.Sc. in Chemistry

Supervised By

Dr. Elmugdad A. Ali

Sudan University for Science and Technology

(Sudan)

Prof. Ahmed M. Elsabagh

Egyptian Petroleum Research Institute

(Egypt)

September 2016