

Kingdom of Saudi Arabia
Ministry of Education
Umm Al Qura University
Faculty of Applied Sciences
Chemistry Department



Uses of some Water Soluble Polymers as Inhibitors for the Corrosion of Carbon Steel in Aqueous Solutions

By

Hanaa Mohammed Ibraheem Hawsawi

(M.Sc.Chemistry)

A Thesis

Submitted in Partial Fulfillment of the Requirement for the degree of
Doctor of Philosophy in Chemistry (Physical Chemistry)

Supervisors

Prof. Dr. . Metwally Abdallah

Prof of physical Chemistry

Prof. Dr. Ahmed Fawzy

Prof of physical Chemistry

Chemistry Department
College of Applied of Science
Umm Al Qura University
(1441-2020)