

بسم الله الرحمن الرحيم

**Sudan University of Science and Technology
College of Graduate Studies**



**Multipliers for Dirac operators and
Riesz basis of Schrodinger operators
with boundary value problems for first
order systems**

مضاريب مؤثرات دراك واساس ريس لمؤثرات
شروونجر طبقا لمسألة القيمة الحدية لأنظمة الرتبة
الأولى

By:

Anwar Musa Khogli Barkat

**A thesis Submitted for the Partial Fulfillment
for The Degree of M.Sc. in Mathematics**

Supervisor:

Prof: Shawgy Hussein AbdAlla

January 2013