



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ  
Sudan University of Science and Technology  
College of Graduate Studies



# Design and Simulation of the Controller of an Inverted Pendulum

تصميم ونمذجة حاكمة لبندول معكوس

A Thesis Submitted in Partial Fulfillment for M.Sc. Degree  
in Electrical Engineering (control and Micro processor)

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