

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

**Transformation and Upgrading of A Lead Compacting
Machine into A Lead-Wire Production Line**

*A Thesis Submitted to The College of Graduate Studies Sudan University
of Science and Technology in Fulfillment of The Requirements for
The Degree of Master of Science in Mechanical Engineering*

**By
Omer Ali Hamed**

Nov. 2005

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