

DESIGN OF A SIMPLE
LIFTING MACHINES

Project Report Submitted by

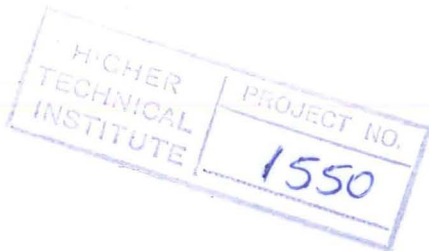
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A B S T R A C T

The Project deals with the design of three different ways of lifting loads. It is divided in four chapters:

The first chapter describes the various types of simple lifting machines used in nowadays.

The second chapter deals with the design of a pulley system, the third deals with the design of a geared pulley and the last one deals with the design of a screw-jack. The first two designs are able to lift a load of 1.2KN and the third is able to lift a load of 4KN, with the maximum effort that comfortably exerted by a man. These chapters include the design of different parts of the machines, as well as machine elements selection such as wire rope, bolts, bearings, hooks, materials, e.t.c.

C O N T E N T S

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