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Computer Aided Flow Analysis in a Clothes Drier.

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ABSTRACT

The first chapter is more introduction about the Clothes Dryer and the proposal of this project and the problems with the existing design. All these will be explained in the following chapter. The explanation will give a brief idea on what it's all about.

The second chapter is about computer aided flow analysis. It's also introducing what is the *Fluent* programming and how the project will be done by using *Fluent* programming.

The third chapter is briefly about building the model of the Clothes Dryer machine. On this chapter we will try to give details about the computer model. The chapter 1 and the chapter 2 are important to give a rough idea on this project.

The fourth chapter is more about the results and discussion. This chapter is about a presentation of result by using the photographs.

The fifth chapter is on the conclusions of the analysis. The last chapter gives the scope for the future work.

OBJECTIVE

In general, we can give three the objectives for our project. Totally, in this project we are using *Fluent* programming to research and find the better result and condition for this machine.

First, the objective for our project is to study the flow behaviour of an existing Clothes Dryer. For this part, we'll try to change their temperature and velocity of hot air.

Second, we want to propose few design changes. These changes are more specific to our inlet, outlet and deflector. We will try to change their area, location and size. In this part, we must do many changes at every new system we create. After we do all this, we can make conclusion for every system.

Third, we'll point our study to the effect of design changes to arrive at an optimum design. All this objective can make our project complete.

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