



054-ST

Friction Coefficient Displayed by Sliding Against Artificial Grass

As students at Yanbu Industrial College in Mechanical Engineering Department who have senior design project, we wrote a report that will describe and show you all what we have done during the last two semesters. Our report consists of six chapters. First chapter is about introduction. Second chapter is about background and literature review. While moving to the third chapter you will see it's talking about theory and analysis. Forth chapter is talking about the design and working principle. Fifth chapter will be about results and discussions. The last chapter which is the sixth one will be about conclusion.

To inform you that, the present work discusses the friction coefficient displayed by the sliding of three types of football shoe soles against three types of artificial grass. The effect of applied load on the static friction coefficient displayed by foot wear soles sliding against artificial grass is investigated. Friction tests are carried out at 10 to 150 N loads at dry and water wet artificial grass. The tested artificial grass is made of polyethylene fibers of different intensity, length and thickness.