

Abstract

The aim of this dissertation is to model the human arm by developing the mathematical model for a triple pendulum. Furthermore, we will analyze the chaotic features of triple pendulum that corresponds to the complex and complicated movements of the human arm. Moreover, we will analyze the attributes of the arm angle, elbow angles and the wrist angle on the dynamics of arm action using the SCILAB. We hope that our investigations will help the biomedical fields. Specially for understanding the bio-mechanical tests for bowlers in cricket.