Abstract

In the 21st century, Where all device are smaller, MEMS has been widely used in various fields of technology. MEMS is a miniature device or arrangement of devices that combine electrical and mechanical components. From MEMS technology has emerged since the last few decades, although its merit still very limited. In the future, there is expected to have a technology that can integrate MEMS into a small bullet or projectile is often called. There is a problem if you want to integrate MEMS into a projectile, namely MEMS can only survive up to a temperature of 71 degrees Celsius or 344 degrees K, while the temperature in the projectile when red can reach temperatures of 267 degrees C or 540 degrees K. Because of that problem, quite dicult to integrate MEMS into a bullet. To overcome these problems, it is necessary to do modeling to determine the best location to put on a bullet MEMS using Jacobi method. Expected by using the Jacobi method can solve the problem and can provide the best solution.

Keywords: Jacobi, MEMS, Projectile.