

EYSIP 2020  
PROJECT 17

## **State Space Equation (Problems)**

**by**

Jai Garg

## 1 Spring Mass System

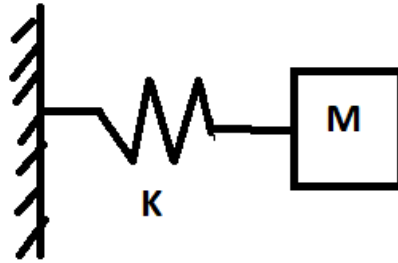


Figure 1: Spring Mass System

Consider a Spring mass system where a spring of spring constant  $k$  is attached to a mass  $M$  and a input  $u(t)$  is applied to right.