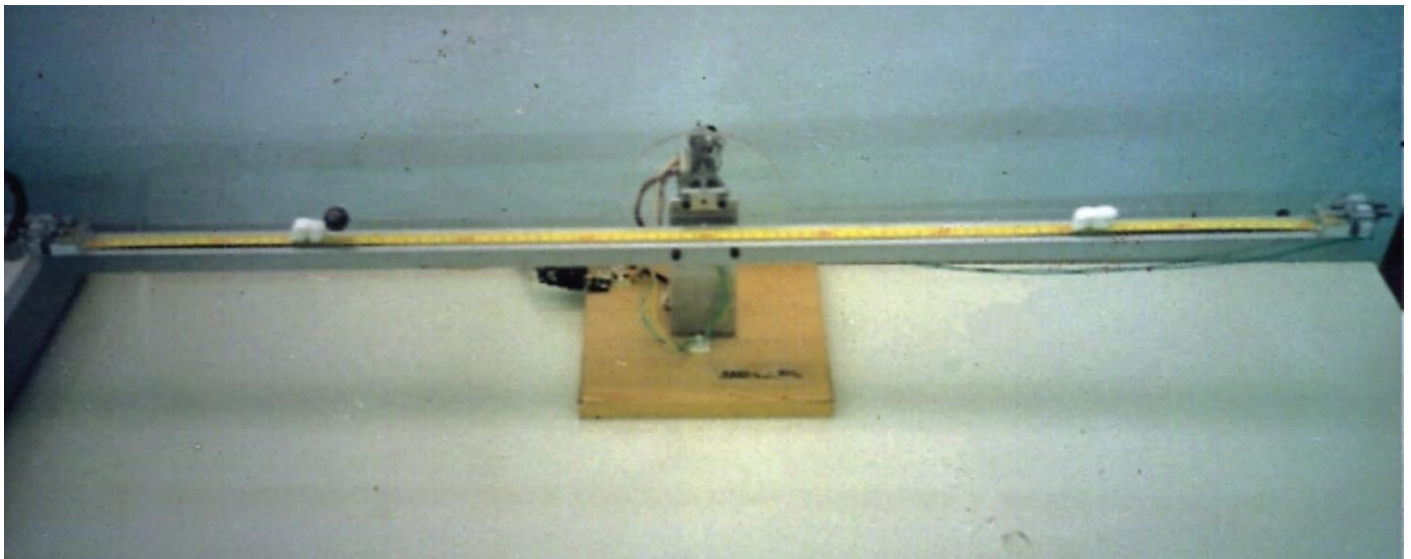




BALL AND BEAM SYSTEM

(System Engineering)



INTRODUCTION

Equipment for the study of the stabilization of a naturally unstable system, and control of the position of the ball.

CHARACTERISTICS

- * The system allows to place a ball moving along a guide, oscillating from a central point, at any desired point of the guide.
- * Self-containing equipment with direct connection to the main, and with interface with other systems through terminals, to connect the inputs and outputs. All the power and measure electronics is hidden inside the equipment.
- * The system includes an additional power supply.
- * Possibility to use an analogical or digital controller.
- * DIMENSIONS : 1.1m x 0.4 m

ELEMENTS INCLUDED

- * 1 DC Motor with gear box, and armature controlled, that allows the oscillating movement of the guide adjusted to the motor axis.
- * A rod with guide for ball displacement.
- * 1 Ball.
- * Ball Position sensors in the guide(two conducting wires), rod inclination angle (potentiometer), and motor speed (tachometric dynamo).