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INTRODUCTION

1.1 THE CONTROL SYSTEM

The control system is that means by which any quantity of interest in a machine, mechanism or other equipment is maintained or altered in accordance with a desired manner. Consider, for example, the driving system of an automobile. Speed of the automobile is a function of the position of its accelerator. The desired speed can be maintained (or a desired change in speed can be achieved) by controlling pressure on the accelerator pedal. This automobile driving system (accelerator, carburettor and engine-vehicle) constitutes a control system. Figure 1.1 shows the general diagrammatic representation of a typical control system. For the automobile driving system the input (command) signal is the force on the accelerator pedal which through linkages causes the carburettor valve to open (close) so as to increase or decrease fuel (liquid form) flow to the engine bringing the engine-vehicle speed (controlled variable) to the desired value.



Fig. 1.1. The basic control system.

The diagrammatic representation of Fig. 1.1 is known as *block diagram* representation wherein each block represents an element, a plant, mechanism, device etc., whose inner details are not indicated. Each block has an input and output signal which are linked by a relationship characterizing the block. It may be noted that the signal flow through the block is unidirectional.

Nagrath Control Systems Engineering

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