

## CHAPTER 1

# *Introduction to Control Systems*

There are, in general, no unique solutions to the following exercises and problems. Other equally valid block diagrams may be submitted by the student.

## Exercises

**E1.1** A microprocessor controlled laser system:



**E1.2** A driver controlled cruise control system:



**E1.3** Although the principle of conservation of momentum explains much of the process of fly-casting, there does not exist a comprehensive scientific explanation of how a fly-fisher uses the small backward and forward motion of the fly rod to cast an almost weightless fly lure long distances (the

# Manual Solution Modern Control Systems 12th

**Sebastian Brünink**



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