
Solutions Manual for Modeling of Dynamic Systems with Engineering Applications, 2e by Clarence Silva (All Chapters)

Chapter 1 Introduction to Modeling

Solution 1.1

Integrated: Concurrent, all aspects (physical domains such as mechanical, electrical, fluid, and thermal) are considered simultaneously.

Unified: Uses analogous (similar) procedures to model and analyze various domains.

Unique: Leads to a single result (leads to the “best” result, usually through optimization).

Systematic: Uses clearly identified sequence of steps (no confusion in the procedure).

Solution 1.2

- (a)** Muscle contraction, body movements, body temperature, heart rate, waste
- (b)** Decisions, profits, finished products
- (c)** Electric power, profit, customer satisfaction, pollution rate
- (d)** Front wheel turn, direction of heading, noise level, accident, pollution level, ride quality (vehicle acceleration, jerk, etc.)
- (e)** Motions (position, velocity, acceleration) of the joints and the end effector (hand) of the robot, trajectory error, collision, speech
- (f)** Bridge oscillation, fault (due to material, aging, poor design, workmanship or maintenance), overload, noise.

Other inputs:

- (a)** Food, forces (impact, etc.), heat
- (b)** Demand for product, economic environment
- (c)** Outside temperature
- (d)** Road disturbances, engine forces/torques, fuel rate, air flow rate
- (e)** Loading on the end effector, voice commands
- (f)** Aerodynamic forces

Solutions Manual To Engineering Modeling And Computation

Zhe Xu



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