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System Dynamics for Engineering Students: Concepts and Applications discusses the basic concepts of engineering system dynamics. Engineering system dynamics focus on deriving mathematical models based on simplified physical representations of actual systems, such as mechanical, electrical, fluid, or thermal, and on solving the mathematical models.

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Machines can be driven by animals and people, by natural forces such as wind and water, and by chemical, thermal, or electrical power, and include a system of mechanisms that shape the actuator input to achieve a specific application of output forces ...

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