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essential for
understanding the
system dynamics in
open-loop (manual
mode) or for closed-

loop (automatic)
control. These models
are either derived from
data (empirical) or
from more
fundamental
relationships (first
principles, physicsbased) that rely on
knowledge of the
process.

**Dynamic Model Introduction**Fundamental dynamic models play a central role in process

Page 23/27

dynamics and control. Such models can be used to: Improve understanding of the process. Dynamic models and computer simulation allow transient process behavior to be investigated without having to disturb the actual process;

Control Engineering | Fundamental models and process control Page 24/27

(3) A process model is required for the control. If the process model is imperfect, then perfect control cannot be achieved. Hence, the feedforward control does not provide perfect control when the process model. Therefore, the statement is

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