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B. Wayne Bequette is a Professor of Chemical and Biological Engineering and the Technology Manager for the Northern Regional Center of the Clean Energy Smart Manufacturing Innovation Institute (CESMII) at Rensselaer Polytechnic Institute. His research efforts are focused on the modeling and control of biomedical and chemical process

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10.450 Lesson 2:

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write (2.4-1) in three
equations. We put the initial
condition with no
disturbances, and each
disturbance with a zero
initial condition. $0 \leq t \leq t_f$
 $x(t) = K(t) \int_0^t y(\tau) d\tau$
 $0 \leq t \leq t_f$
 $x(t) = K(t) \int_0^t y(\tau) d\tau$
 $0 \leq t \leq t_f$
 $1 \ 0 \ 0 \ H \ H \ H \dots$

KEY TOPICS:Bequette
introduces the key fundamentals
of process control and
instrumentation, with objectives,
variables, and diagrams. He
presents today's leading
methodologies for dynamically
modeling chemical processes, and
introduces dynamic behavior of
linear systems, including state
space and transfer-based models.