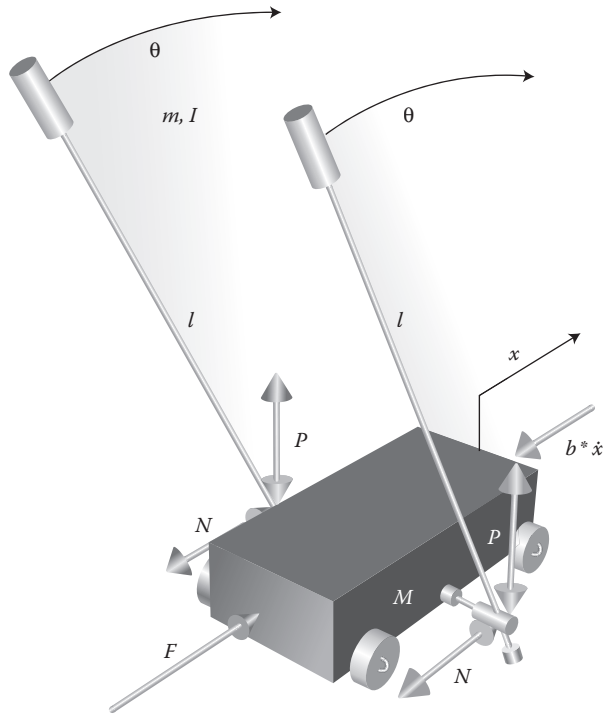
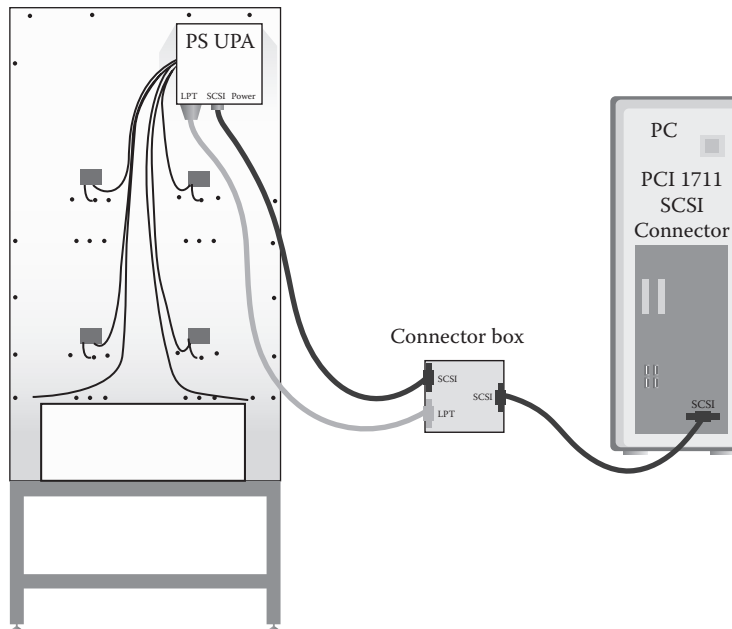


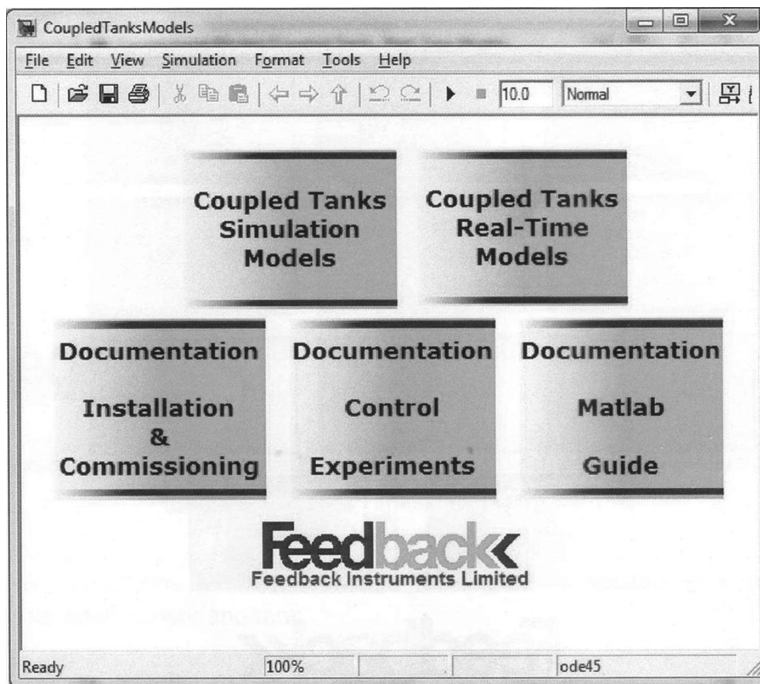
**FIGURE AII.1**  
(See color insert.) Implementation of real-time model using FEEDBACK $\llcorner$  instrumentation.



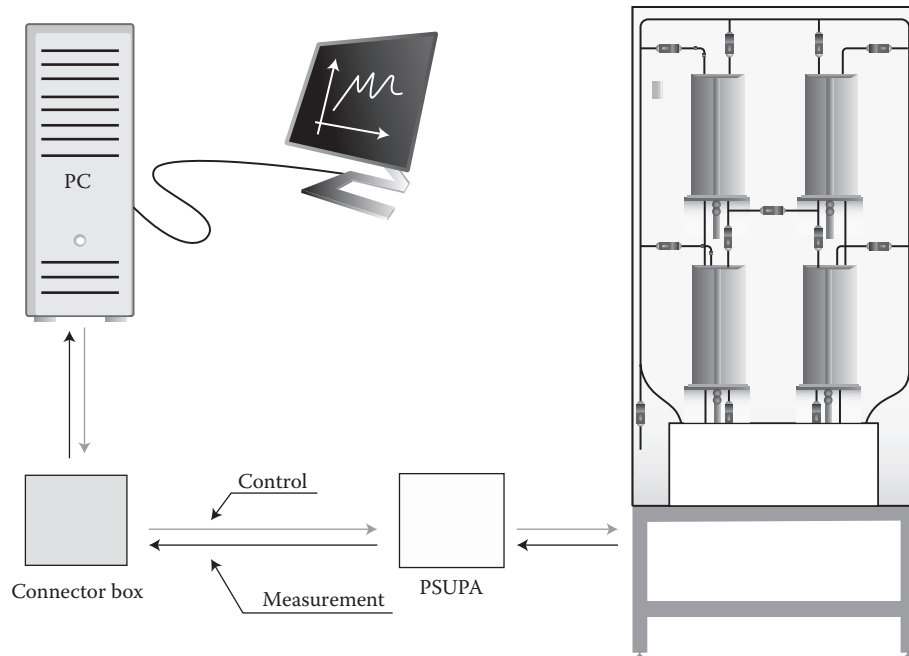
**FIGURE AII.2**  
(See color insert.) Model description example of an inverted pendulum.



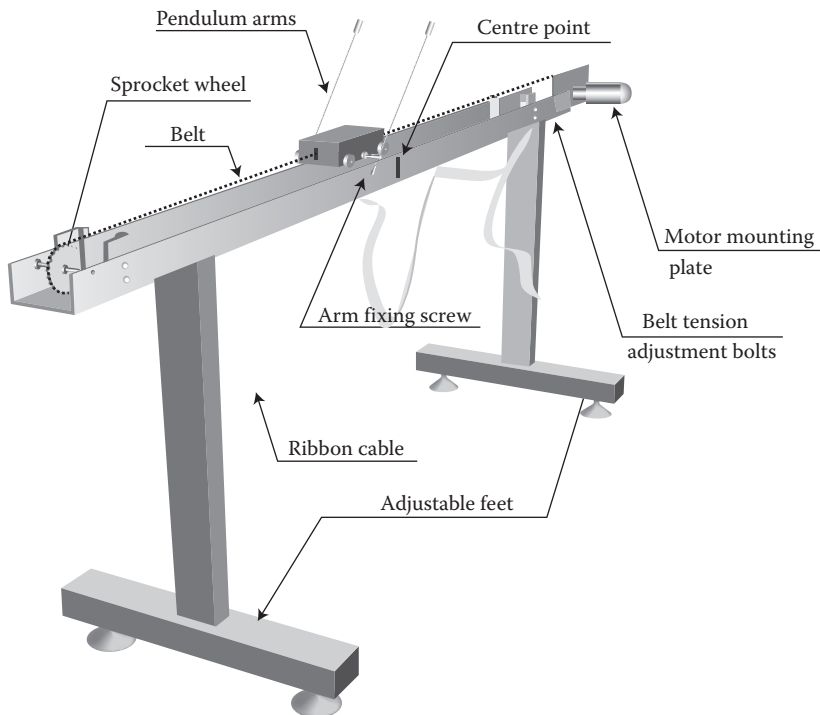
**FIGURE AII.3**  
(See color insert.) Coupled tanks connection diagram.



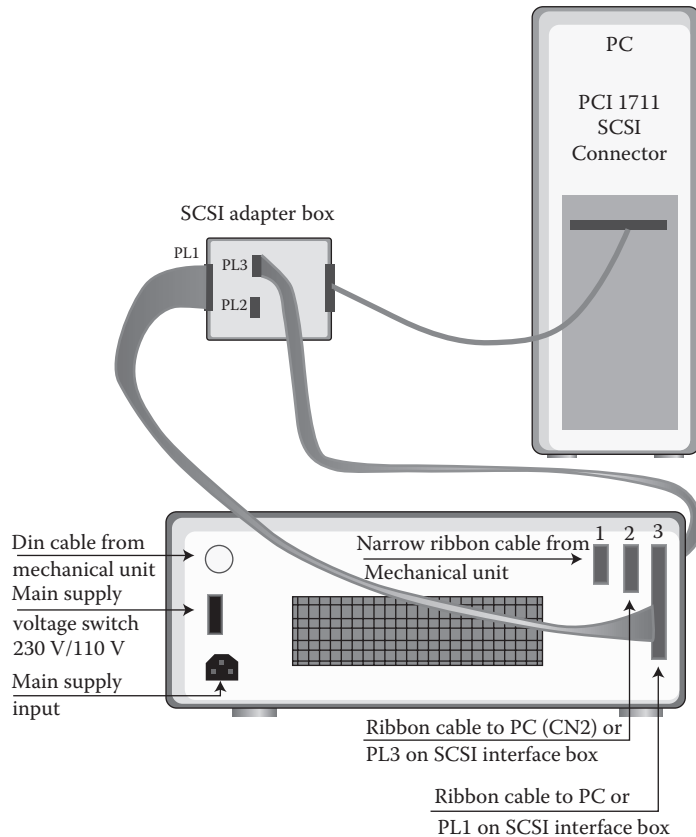
**FIGURE AII.4**  
(See color insert.) Simulink model menu for coupled tanks.



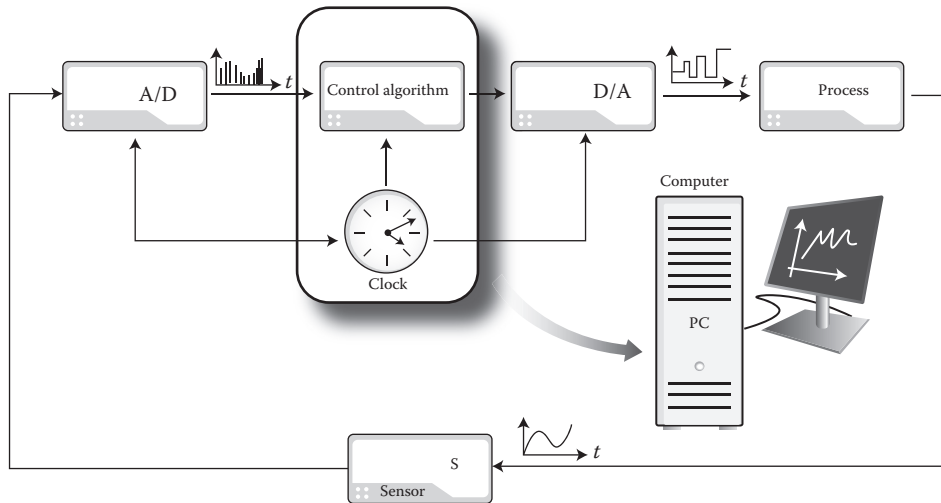
**FIGURE AII.5**  
(See color insert.) Control system schematic for coupled tanks.



**FIGURE AII.6**  
(See color insert.) Inverted pendulum unit.



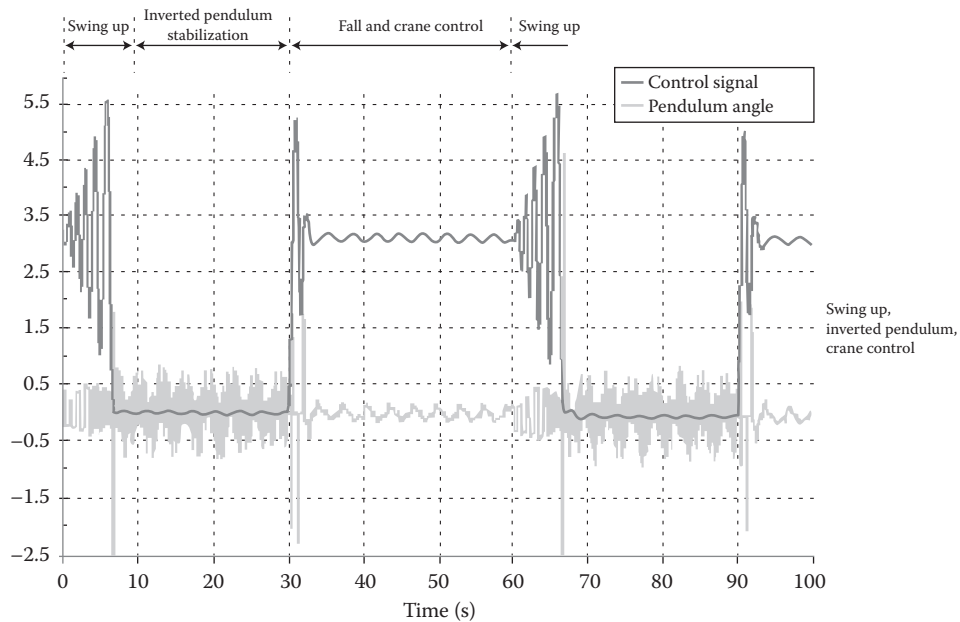
**FIGURE AII.7**  
(See color insert.) Connection diagram for inverted pendulum.



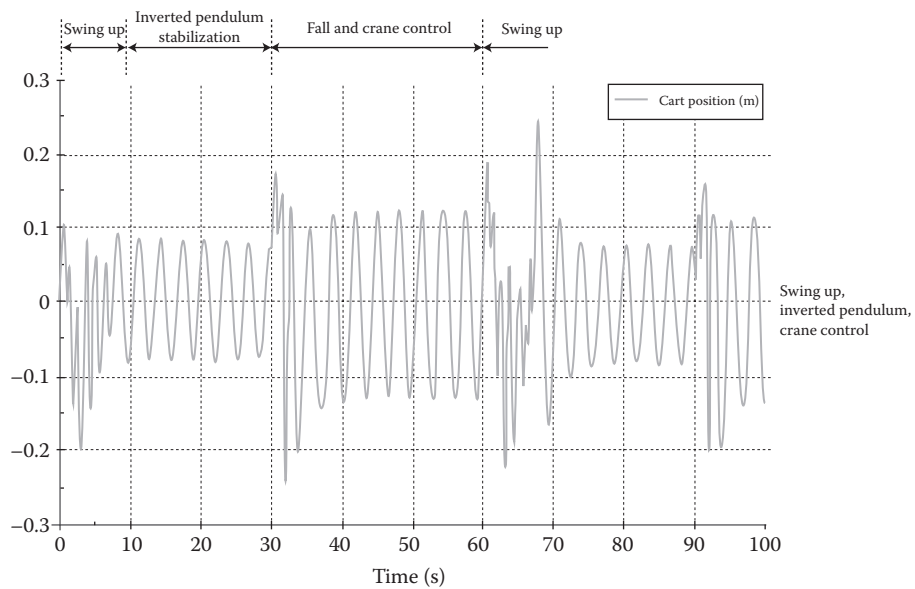
**FIGURE AII.8**  
(See color insert.) Computer control system diagram.







**FIGURE AII.10**  
(See color insert.) Pendulum PID control response.



**FIGURE AII.11**  
(See color insert.) Pendulum cart position; PID control response.