

fourth edition

# DESIGN OF FEEDBACK CONTROL SYSTEMS



STEFANI SHAHIAN SAVANT HOSTETTER

Instructor's Solutions Manual  
to Accompany

## Design of Feedback Control Systems

Fourth Edition

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### CHAPTER 1

1.1 a.  $x_0 = 1$

$$y_0 = 1$$

$$m = \left. \frac{dy}{dx} \right|_{x=x_0} = 3x^2|_{x=1} = 3$$

$$y \approx 1 + 3(x-1)$$

b)  $x_0 = 1$

$$y_0 = 2$$

$$m = \left. \frac{dy}{dx} \right|_{x=x_0} = \frac{2}{3} \left. \frac{1}{x^{1/3}} \right|_{x=1} = \frac{2}{3}$$

$$y \approx 2 + \frac{2}{3}(x-1)$$

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