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Chapter 8: Systems and controls . Chapter learning objectives. Upon completion of this chapter you will be able to: Describe and explain the five key components of an internal control system; Explain how auditors record internal control systems; Explain how auditors identify deficiencies and significant



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deficiencies in internal control systems;

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## **Chapter 8: Systems and controls**

For the system of Figure P8.8(a), sketch the root locus and find the following: [Section: 8.7] a. Asymptotes b. Breakaway points c. The range of  $K$  for stability d. The value of  $K$  to yield a 0.7 damping ratio for the dominant second-order pair To improve

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stability, we desire the root locus to cross the  $j$ -axis at  $j5.5$

**For the system of Figure P8.8(a), sketch the root locus ...**

8.1 CONCEPT OF STABILITY System

stability is one of the most important performance

specification of a control system. A

system is considered unstable if it does not

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return to its initial position but continues to oscillate after it is subjected to any change in input or is subjected to undesirable disturbance.

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Systems Goals The  
purpose of this chapter  
is to give you an  
overview of the topic of  
control systems and to  
introduce you to the  
basic concepts that  
you need to go  
forward. Presented are  
Basic control loop  
anatomy, the parts and  
pieces of control loops  
and how they are

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chapter examples,  
review questions and  
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Terraces (210-VI-EFH,

Amend. 48, December

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For the unity feedback  
system of Figure P8.3,  
where  $G_s K_s 1s^2 s s 1s$   
2 sketch the root locus  
and find the following:

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[Section: 8.5] a. The breakaway and break-in points b. The  $j$ -axis crossing c. The range of gain to keep the system stable d. The value of  $K$  to yield a stable system with secondorder complex poles, with a

**Answer: For the unity feedback system of Figure P8.3 ...**

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Chapter 8 > Problem 6

For the open-loop pole-zero plot shown in

Figure P8.4, Problem 6

Chapter 8

**For the open-loop pole-zero plot shown in Figure P8.4 ...**

Sketch the root locus and find the range of  $K$  for stability for the unity feedback system shown in Figure P8.3 for the following

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conditions: [Section:

8.5] a.  $G_s K_s 2 \cdot 1 s \cdot 1 s \cdot 2 s$

3 b.  $G_s K_s 2 \cdot 2 s \cdot 2 s s \cdot 1 s \cdot 2$

**Sketch the root locus and find the range of K for |**

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