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Discrete-Time-Systems - Pulse Transfer Functions of a Digital Control System (Lecture 6 - Part II) *Digital control 10: Continuous-time models of discrete-time systems Digital control 8: Stability of discrete-time systems Digital control 9: Overview of discrete-time systems and signals*

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A comprehensive treatment of the analysis and design of discrete-time control systems which provides a gradual development of the theory by emphasizing basic concepts and avoiding highly mathematical arguments. The book features comprehensive treatment of pole placement, state observer design, and quadratic optimal control.

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Discrete-time control systems differ from continuous-time control systems in that signals for a discrete-time control system are in sampled-data form or in digital form. If a digital computer is involved in a control system as a digital controller, any sampled data must be converted into digital data.

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Notes for Discrete-Time Control Systems (ECE-520) Fall 2010 by R. Throne The major sources for these notes are † Modern Control Systems, by Brogan, Prentice-Hall, 1991. † Discrete-Time Control Systems, by Ogata. Prentice-Hall, 1995. † Computer Controlled Systems, by "Astr~om and Wittenmark. Prentice-Hall, 1997.

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