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Digital Control System Analysis and Design Book Description : A text for a first course in discrete control systems or a first course in digital filters, at senior or first-year graduate level. Covers discrete-time systems and the z-transform, stability analysis techniques, digital controller design, and digital filter structures.

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*Digital Control Engineering*

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• A digital computer may serve as a compensator or controller in a feedback control system. Since the computer receives data only at specific intervals, it is necessary to develop a method for describing and analyzing the performance of computer control systems. • The computer system uses data sampled at prescribed intervals,

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Analysis and Design of Digital Control Systems This oscilloscope waveform shows the step-response of a Finite Impulse-Response (FIR) digital filter. The filter was created by students in a course lab. (Image courtesy of Michael Eilenberg and Brett Shapiro.)

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