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Jacquot

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presents an integrated approach to digital discrete time control systems covering analysis design simulation and real time implementation through relevant hardware and software platforms Topics related to discrete time control systems include z transform inverse z transform sampling and reconstruction open and closed loop system characteristics steady state accuracy for different system types and input functions stability analysis in z domain Jury s test bilinear transformation from z to w domain stability analysis in w domain Routh Hurwitz criterion root locus techniques in z domain frequency domain analysis in w domain control system specifications in time and frequency domains design of controllers PI PD PID phase lag phase lead phase lag lead using time and frequency domain specifications state space methods controllability and observability pole placement controllers design of observers estimators full order prediction reduced order and current observers system identification optimal control linear quadratic regulator LQR linear quadratic Gaussian LQG estimator Kalman filter implementation of controllers and laboratory experiments for validation of analysis and design techniques on real laboratory scale hardware modules Both single input single output SISO and multi input multi output MIMO systems are covered Software platform of Matlab Simulnik is used for analysis design and simulation and hardware software platforms of National Instruments NI LabVIEW are used for implementation and validation of analysis and design of digital control systems Demonstrating the use of an integrated approach to cover interdisciplinary topics of digital control emphasizing theoretical background validation through analysis simulation and implementation in physical laboratory experiments the book is ideal for students of engineering and applied science across in a range of concentrations Control and Dynamic Systems V33: Advances in Aerospace Systems Dynamics and Control Systems Part 3 of 3 C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory in Applications Volume 33 Advances in Aerospace Systems Dynamics and Control Systems Part 3 of 3 deals with significant advances in technologies which support the development of aerospace systems It also presents several algorithms and computational techniques for complex aerospace systems This book first presents a survey of analytical redundancy techniques to improve turbine engine control systems It then discusses techniques for remotely piloted vehicles control configured vehicles CCV techniques aircraft handling pilot vehicle dynamics and optimal control techniques for complex aerospace structure This text is an excellent reference for research and professional workers in the field who want a comprehensive source of techniques with significant applied implications **Control and Dynamic** Systems V32: Advances in Aerospace Systems Dynamics and Control Systems Part 2 of 3 C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory in Applications Volume 32 Advances in Aerospace Systems Dynamics and Control Systems Part 2 of 3 deals with significant advances in technologies which support the development of aerospace systems It also presents several algorithms and computational techniques used in complex aerospace systems After discussing flight management systems FMS this volume presents techniques for treating complex aerospace systems models These techniques include parameter identification asymptotic perturbation method reliability techniques constrained

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