Practical Control Engineering

An Essential Guide to Control Engineering FundamentalsUnderstand the day-to-day procedures of today&s control engineer with the pragmatic insights and techniques contained in this unique resource. Written in clear, concise language, Practical Control Engineering shows, step-by-step, how engineers simulate real-world phenomena using dynamic models and algorithms. Learn how to handle single and multiple-staged systems, implement error-free feedback control, eliminate anomalies, and work in the frequency and discrete-time domains. Extensive appendices cover basic calculus, differential equations, vector math, Laplace and Z-transforms, and Matlab basics. Practical Control Engineering explains how to:Gain insight into control engineering and process analysisWrite and debug algorithms that simulate physical processes Understand feedback, feedforward, open loops, and cascade controlsBuild behavioral models using basic applied mathematicsAnalyze lumped, underdamped, and distributed processesComprehend matrix, vector, and state estimation concepts Convert from continuous to discrete-time and frequency domainsFilter out white noise, colored noise, and stochaic disturbances EAN/ISBN : 9780071606141 Publisher(s): McGraw-Hill Professional Format: ePub/PDF Author(s): Koenig, David M.

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