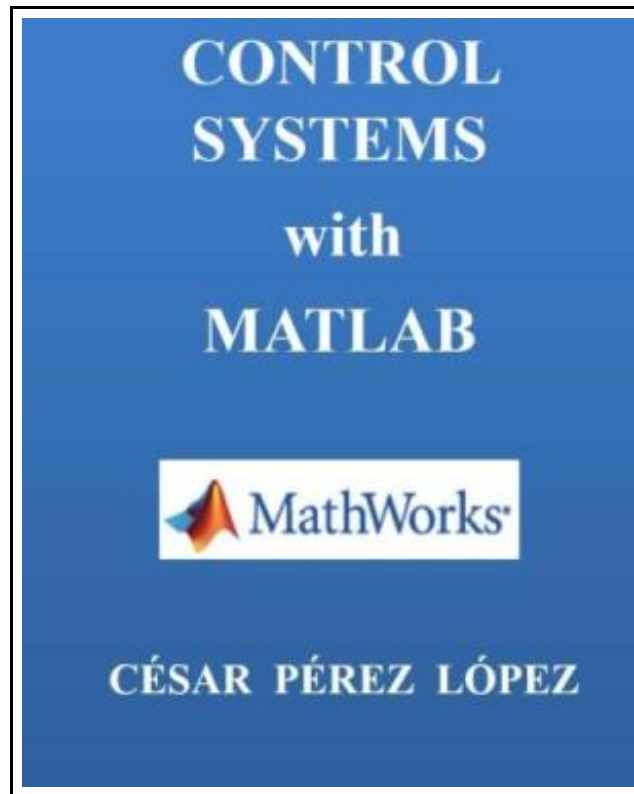# Control Systems with MATLAB

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Reviews

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CONTROL SYSTEMS WITH MATLAB

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Createspace, United States, 2014. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.MATLAB dedicated a specific part of your content to control systems through the Control System Toolbox. Control System Toolbox is a collection of algorithms that implement common techniques of design, analysis, and models of control systems. Its wide range of services includes classic and modern methods of design of controls, including root locus, pole placement and LQG regulators design. Certain graphical user interfaces appropriate simplify the typical tasks of control engineering. This toolbox is built on the foundations of MATLAB to provide specialized tools for control systems engineering. The toolbox is a collection of algorithms, mainly written as files.M, running common techniques for design, analysis and modeling of control systems. With Control System Toolbox can create models of linear invariant systems (LTI) time as transfer function, zero/pole/amplification or form of State space. You can manipulate both discrete and continuous time systems and make conversions between various representations of models. You can calculate and graph time response, frequency response and loci of roots. Other functions allow you to perform placement of Poles, optimal control and estimates. The Control System Toolbox is open and extensible, allowing you to create files.M customized to suit your specific application. This book starts by introducing the reader in the MATLAB environment and trying all the tools necessary to pair properly work with procedures of Control System Toolbox. Subsequently elaborates on specific systems of control procedures by presenting a wide variety of exercises to clarify theoretical concepts. The exercises are presented in sequential order of difficulty to facilitate the understanding of the matter. The content is as follows: INTRODUCTION MATLAB INTRODUCTION AND WORKING ENVIRONMENT VARIABLES, NUMBERS, OPERATORS AND FUNCTIONS CONTROL SYSTEMS CONTROL SYSTEMS DESIGN AND...

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