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By William J. Palm III

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* Extensive coverage on modeling is expanded to four chapters. The selection of engineering examples and the clear writing effectively relates the math methods to the real world.
* Laplace transform response techniques are introduced as needed in the context of engineering applications. This approach clearly demonstrates the need for and the power of these techniques.
* Case studies are integrated throughout the text to provide in-depth treatment of practical engineering applications such as motion control system design, electromechanical system design, vehicle suspension design, and aircraft response modes.
* Optional sections at the end of each chapter introduce Matlab commands and applications relevant to the chapter's topics.
* Digital controller design using Matlab is covered without the need for z-transform theory.

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