William J. Palm has revised *Modeling, Analysis, and Control of Dynamic Systems*, an introduction to dynamic systems and control. The first six chapters cover modeling and analysis techniques, and treat mechanical, electrical, fluid, and thermal systems. Transfer functions, frequency response, and Laplace-transform solution of differential equations are also covered. The last five chapters cover the fundamentals and applications of control systems, classical methods for control system design, based on the root locus and frequency response plots; and modern design techniques based on state space methods. Optional sections at the end of each chapter introduce Matlab commands and applications relevant to the chapter’s topics. Four appendices summarize Fourier series, Mason's rule, the Routh array, units, and physical constants.

**ABOUT THE AUTHOR**


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FEATURES

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