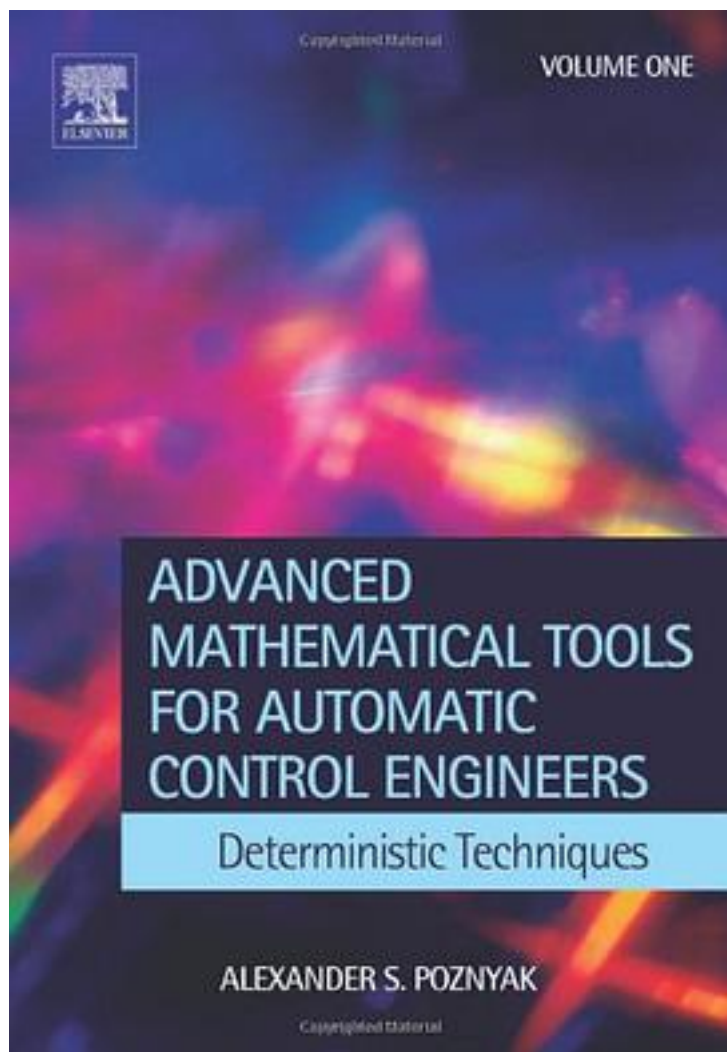# Advanced Mathematical Tools for Control Engineers

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This book provides a blend of Matrix and Linear Algebra Theory, Analysis, Differential Equations, Optimization, Optimal and Robust Control. It contains an advanced mathematical tool which serves as a fundamental basis for both instructors and students who study or actively work in Modern Automatic Control or in its applications. It is includes proofs of all theorems and contains many examples with solutions.

It is written for researchers, engineers, and advanced students who wish to increase their familiarity with different topics of modern and classical mathematics related to System and Automatic Control Theories

* Provides comprehensive theory of matrices, real, complex and functional analysis

* Provides practical examples of modern optimization methods that can be effectively used in variety of real-world applications

* Contains worked proofs of all theorems and propositions presented

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