



## Analysis and Synthesis of Time Delay Systems

*Henryk Górecki, Stanisław Fuksa, Piotr Grabowski, Adam Korytowski*

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This book offers a comprehensive review of the modern theory of control systems described by functional-differential equations. The emphasis of the text is on methods and results that are applicable to analysis and synthesis of industrial control systems with time delays. Initial chapters contain examples of systems with delays and a presentation of typical control problems. Chapters also present basic results of the mathematical theory of functional-differential and discrete equations and cover identification of time-delay systems, stability theory, PID and Smith controllers, as well as the determination of stability regions, controller settings, and more. A review of controllability and observability results is presented, and optimal control is discussed in detail.

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