



# Structure and Synthesis of PID Controllers

*Aniruddha Datta, Ming-Tzu Ho, Shankar P. Bhattacharyya*

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In many industrial applications, the existing constraints mandate the use of controllers of low and fixed order while typically, modern methods of optimal control produce high-order controllers. The authors seek to start to bridge the resultant gap and present a novel methodology for the design of low-order controllers such as those of the P, PI and PID types. Written in a self-contained and tutorial fashion, this book first develops a fundamental result, generalizing a classical stability theorem – the Hermite–Biehler Theorem – and then applies it to designing controllers that are widely used in industry. It contains material on:

- current techniques for PID controller design;
- stabilization of linear time-invariant plants using PID controllers;
- optimal design with PID controllers;
- robust and non-fragile PID controller design;
- stabilization of first-order systems with time delay;
- constant-gain stabilization with desired damping
- constant-gain stabilization of discrete-time plants.

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