



# Designing Control Loops for Linear and Switching Power Supplies: A Tutorial Guide

*Christophe Basso*

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Loop control is an essential area of electronics engineering that today's professionals need to master. A control system is a complex electronics architecture involving setpoints and targets. One simple example is the cruise control system of an automobile. Rather than delving into extensive theory, this practical book focuses on what power electronics engineers really need to know for compensating or stabilizing a given system. Engineers can turn instantly to practical sections with numerous design examples and ready-made formulas to help them with their projects in the field. Readers also find coverage of the underpinnings and principles of control loops so they can gain a more complete understanding of the material. This authoritative volume explains how to conduct analysis of control systems and provides extensive details on practical compensators. It helps engineers measure their system, showing how to verify if a prototype is stable and features enough design margin. Moreover, professionals learn how to secure high-volume production by bench-verified safety margins.

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