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The chapter deals with thinking power. It highlights the fact that practice and theory are two sides of the same coin—one of the first things one requires to be aware of while troubleshooting switching converters is that one must develop an ability to look at a practical problem through the eyes of supporting theory, and vice versa.

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converter circuit. But really, it would never pass muster as even a basic switching converter. Breadboards, for one, are kryptonite to switching converters. If you really think about it, all that that picture so aptly conveys is exactly what you shouldn't ever be attempting to do in power.

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narrow the problem from a design issue to an assembly or PCB issue. Power supply ICs usually have input-enable or under-voltage lockout (UVLO) circuits. An oscilloscope is useful for checking these voltage levels. Probe the input-voltage and enable pins to observe if each crosses the startup thresholds specified by the IC datasheet. Some converters

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