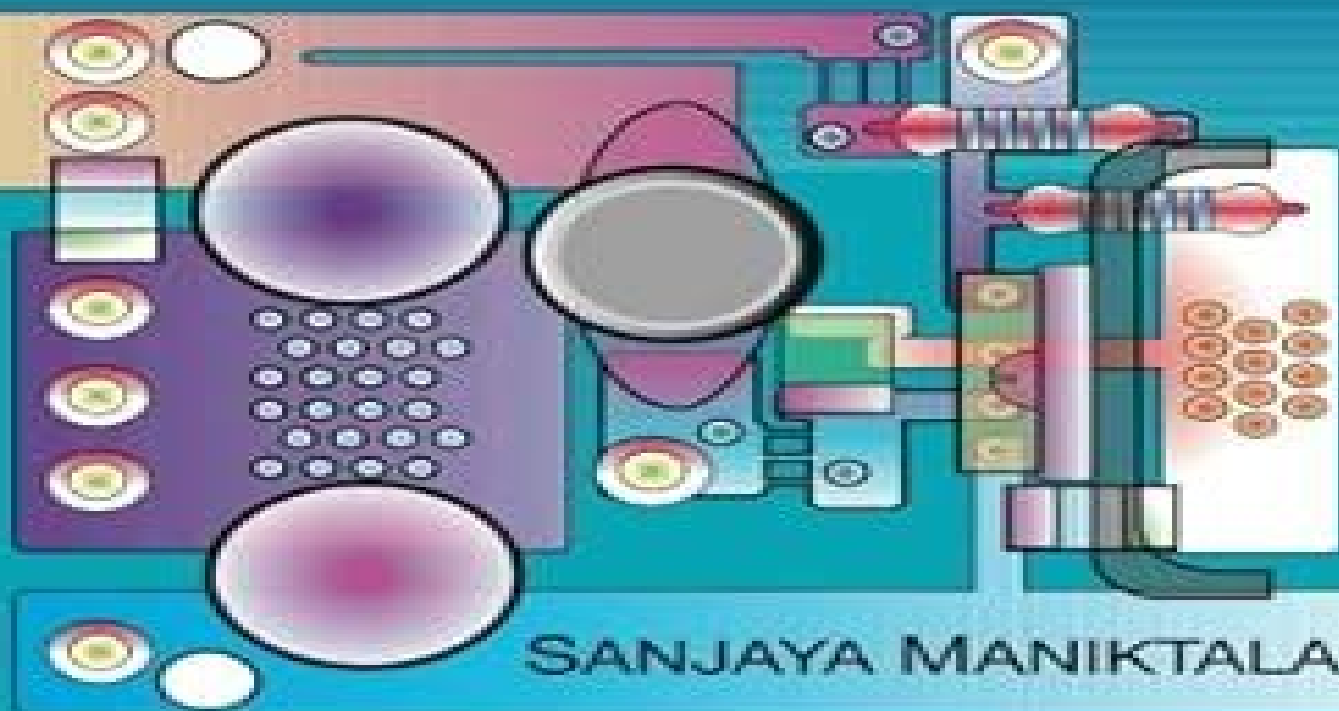


Troubleshooting Switching Power Converters

A Hands-on Guide



SANJAYA MANIKTALA



Troubleshooting Switching Power Converters A Hands On Guide

Barrett Williams, ChatGPT



Troubleshooting Switching Power Converters A Hands On Guide:

Troubleshooting Switching Power Converters Sanjaya Maniktala, 2011-04-08 Power Supply design is all about detail And a large part of that detail lies in the practical domain largely because of the typically small number of microseconds of switching periods involved and the even smaller tens of nanoseconds of switch transition times all these in effect accentuating various second order effects that eventually end up playing prime havoc with normal expectations of how the circuit should behave So not unsurprisingly even after reading several books most readers still find themselves no closer to the ultimate goal of designing an actual power supply Sooner or later all engineers start realizing the hard fact that designing a switching power supply isn't the trivial task it once seemed to be But even after years of successfully mastering the underlying theory the ultimate goal of creating a cost effective reliable and commercially viable power supply may still remain a distant dream since success ultimately hinges on experience That is in fact what clearly differentiates a senior and seasoned power supply engineer from the others the ability to navigate and surmount a veritable minefield of tricky issues that can only be learned the hard way by actual hands on experience on the job This book presents practical knowledge the author acquired rather painfully while working in the trenches for several years in major engineering companies scattered across several continents This is intended to be the mythical senior engineer's bag of tricks finally made available in the form of an easy to read book on your shelf This book will make life for the ambitious power supply engineer much simpler besides reducing significantly the rigorous requirement of having to be a senior engineer's protégé for years on end just to gain a small measure of real success in this field A practical presentation that answers the important question why is my switching converter behaving so differently than what I was expecting on the basis of my paper design And how do I bridge that huge gap For the first time a systematic and thorough discussion of troubleshooting switching power supplies Coverage of AC DC and DC DC power supplies Bench Evaluation of semiconductor ICs used in power conversion describing standard and unusual techniques mastered by the author while testing similar chips at National Semiconductor Detailed coverage of vital topics that haven't been covered by available sources grounding systems the subtleties of component datasheets and using instruments and probes effectively Systematic investigation type of failure mechanism topology etc and solutions for 5 years of reported power supply issues on a prominent public web forum This approach will ensure that engineers will not repeat the same mistakes A unique readable style personal and direct no mystification just the plain truth easily and logically explained with plenty of pictures graphs and plots

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