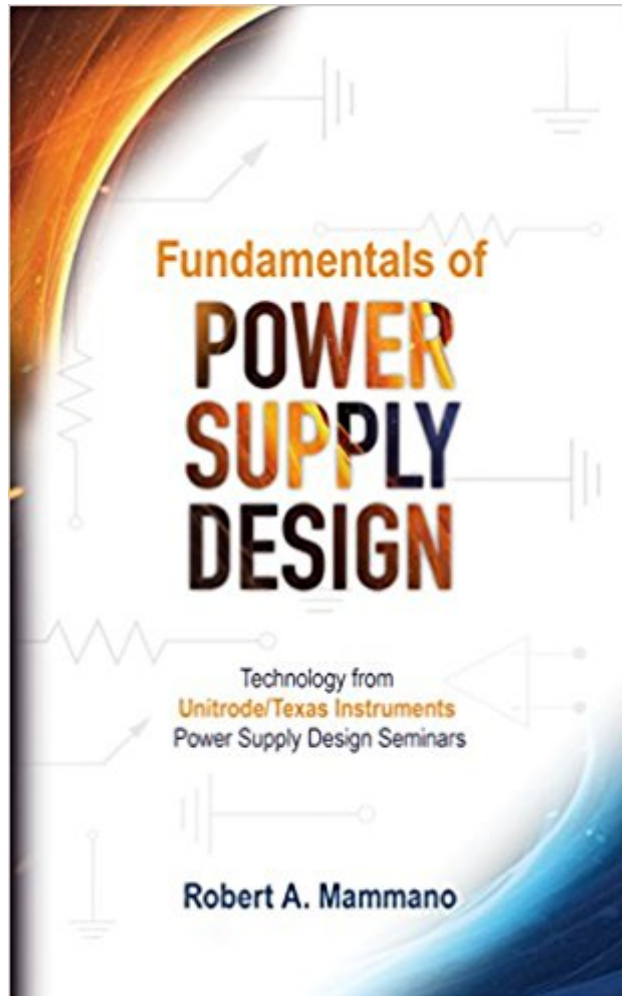




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Fundamentals Of Power Supply Design



Synopsis

Whether you are a student, a recent engineering grad entering the field of power electronics, or a seasoned power supply designer, this book will be a significant resource. From a basic definition of a power supply, this book follows with voltage regulation and the components necessary for implementation, and continues by describing the many circuit topologies and control algorithms. There are separate chapters on feedback-loop compensation and magnetic design as well as in-depth descriptions for complying with regulations for electromagnetic compatibility, human safety, and energy efficiency. Final chapters will describe the value proposition for digital control and the practical aspects of power supply construction. The information contained within this book has been drawn from the knowledge generated through forty years of Power Supply Design Seminars developed and presented by Unitrode and Texas Instruments, with references in the book's chapters linking to TI's library of past seminar topics.

Book Information

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Customer Reviews

REVIEWER'S COMMENTS - This book offers engineers a very readable and practical introduction to power supply design. Mammano presents straightforward explanations on all aspects of design with just enough math and ample illustrations to communicate how power circuits, topologies, and control methods work, along with the essentials of the many subdisciplines. This book will be a handy reference even for experienced power supply designers. David Morrison, Editor, How2Power

It is just an ok book. It just goes over the fundamentals. I was expecting that the book would be as detailed as Basso, Maniktala or Billing's books. TI could have done a better job of incorporating some of their reference designs explaining various topologies in detail and showing step by step

procedure of building converters. But, there is nothing of such kind. Even the basic concepts in the book are not described in detail. May be this book was written just to make sure no one forgets who the father of PWM IC was.

Very good book and clear description of DC-DC details. May have some errors on page 118 and page 124. P118: $w/esr = 10\text{mohm}$ points to a wrong line. P124: maybe number 6 formula is wrong.

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