

ADVANCED DC/DC CONVERTERS

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This is a book for those who already have a basic knowledge of the *high-frequency dc-dc converters* and are interested in further study: professors, electronics design engineers, experts, upper-level students in HF power electronics.

Authors' personal research experience and in education is the source of the over 500 topologies presented or suggested, logically classified in 6 "generations".

First, basic dc-dc converter circuit, operation, parameters and methods are discussed, followed by voltage-"lift" converters. Then, the variety of converter topologies is passed in review, one generation after another, with a precise, analytical presentation of the ideal circuits. Many new ideas and more than 100 new topologies are introduced. EMI/EMC reduction and the voltage sources for the converters are discussed.

Multiple-stage (cascaded) converters are presented, with very large output-to-input voltage ratio (the "Luo converters"). More information would have been useful about their efficiency.

More than 400 references are mentioned, spread in the 12 chapters.

The book is written in a deep analytical spirit.

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