



# Inductors and Transformers for Power Electronics

*Vencislav Cekov Valchev, Alex Van den Bossche*

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**Inductors and Transformers for Power Electronics** Vencislav Cekov Valchev, Alex Van den Bossche  
Although they are some of the main components in the design of power electronic converters, the design of inductors and transformers is often still a trial-and-error process due to a long working-in time for these components. *Inductors and Transformers for Power Electronics* takes the guesswork out of the design and testing of these systems and provides a broad overview of all aspects of design.

*Inductors and Transformers for Power Electronics* uses classical methods and numerical tools such as the finite element method to provide an overview of the basics and technological aspects of design. The authors present a fast approximation method useful in the early design as well as a more detailed analysis. They address design aspects such as the magnetic core and winding, eddy currents, insulation, thermal design, parasitic effects, and measurements. The text contains suggestions for improving designs in specific cases, models of thermal behavior with various levels of complexity, and several loss and thermal measurement techniques.

This book offers in a single reference a concise representation of the large body of literature on the subject and supplies tools that designers desperately need to improve the accuracy and performance of their designs by eliminating trial-and-error.

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