

High-Frequency Magnetic Components (Hardback)

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Reviews

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HIGH-FREQUENCY MAGNETIC COMPONENTS (HARDBACK)



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John Wiley Sons Inc, United States, 2014. Hardback. Condition: New. 2nd Revised edition. Language: English . Brand New Book. A unique text on the theory and design fundaments of inductors and transformers, updated with more coverage on the optimization of magnetic devices and many new design examples The first edition is popular among a very broad audience of readers in different areas of engineering and science. This book covers the theory and design techniques of the major types of high-frequency power inductors and transformers for a variety of applications, including switching-mode power supplies (SMPS) and resonant dc-to-ac power inverters and dc-to-dc power converters. It describes eddy-current phenomena (such as skin and proximity effects), high-frequency magnetic materials, core saturation, core losses, complex permeability, high-frequency winding resistance, winding power losses, optimization of winding conductors, integrated inductors and transformers, PCB inductors, self-capacitances, self-resonant frequency, core utilization factor area product method, and design techniques and procedures of power inductors and transformers. These components are commonly used in modern power conversion applications. The material in this book has been class-tested over many years in the author s own courses at Wright State University, which have a high enrolment of about a hundred graduate students per term. The book presents the growing area of magnetic component research in a textbook form, covering the foundations for analysing and designing magnetic devices specifically at high-frequencies. Integrated inductors are described, and the Self-capacitance of inductors and transformers is examined. This new edition adds information on the optimization of magnetic components (Chapter 5). Chapter 2 has been expanded to provide better coverage of core losses and complex permeability, and Chapter 9 has more in-depth coverage of self-capacitances and self-resonant frequency of inductors. There is a more rigorous treatment of many concepts in all chapters. Updated end-of-chapter problems aid the readers...

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