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Inductors, like transformers, are designed for a given temperature rise. They can also be designed for a given regulation. The regulation and energy-handling ability of a core are related to two constants, K<sub>g</sub> and K<sub>e</sub>, by the equation: (Energy)<sup>2</sup> = K<sub>g</sub>K<sub>e</sub>a, [21-D1] Where: a = Regulation, [k] The constant, K<sub>g</sub>, is a function of the core geometry: K<sub>x</sub>=f(Ac,Wa,MLL) [21-D2] The constant, K<sub>e</sub>, is a ...

**Chapter 21 Derivations for the Design Equations**  
Pulse transformers. 4. Differential mode EMI noise filters. 5. Flyback transformers. 6. Energy storage, or output inductors, in circuits with large amounts of dc current flowing. Molybdenum Permalloy Powder Cores (MPP) Molybdenum Permalloy Powder Cores (MPP) are manufactured from very fine particles of an 81 % nickel, 17% iron, and a 2% molybdenum alloy. The insulated powder is then compacted ...

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output filter inductor, LI, and the current flows through the inductor to the load. When the switch is open, the energy, stored in the field of the inductor, LI, maintains the current through the load. The discontinuous voltage and current waveforms are shown in Figure 13-4, and the continuous waveforms in Figure 13-5. 1 Cl J Vvm-n Q1-ULL ^ CR1 ...

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