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Most Of Which Ends Up As Loss. In Order To Store And Return Energy To The Circuit Efficiently And With Mini-mal Physical Size, A Small Non-magnetic Gap Is Re-quired In Series With A High Permeability Magnetic Core Material. In Ferrite Or Laminated Metal All Apr 8th, 2024

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**Lecture 36 Transformer And AC Inductor Odds And Ends**

Max(transformer) = 2.22 K Cuf A C A WJ RmsB Max. In Transformer Design, We Need To Insure That S S Max Then Increase The Size Of Chosen Transformer Core To Mar 12th, 2024

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Fundamentals Of Power Electronics Chapter 14: Inductor Design The Window Utilization Factor  $K_u$  Also Called The “fill Factor”  $K_u$  Is The Fraction Of The Core Window Area That Is Filled By Copper Mechanisms That Cause  $K_u$  To Be Less Than 1: • Round Wire Does Not Pack Perfectly, Which Reduces  $K_u$  By A Factor Of 0.7 To 0.55 Depending On Winding Technique May 14th, 2024

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A Design Example • Scenario. A Power Electronics Converter Design Requires A Filter Inductor. • Requirements  $\frac{3}{4}$ At Maximum Load, The Average Inductor Current Will Be 3.0 A.  $\frac{3}{4}$ Current Ripple Less Than 0.2 A.  $\frac{3}{4}$ The Incremental Inductance Required Is 5 mH.  $\frac{3}{4}$ The Dc Resistance Of The Induc Apr 16th, 2024

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