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this work compiles the specifications of over 12,000 industrially available cores and brings them in line with standard units of measurement, simplifying the selection of core configurations for the design of magnetic components.

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## Transformers And Inductors A

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The following are the types of materials used for producing magnetic cores for the transformers:

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Amorphous Steel: This is one of the popular options for creating magnetic cores in transformers. These cores are made... Solid Iron Core: These cores provide magnetic flux, and helps retain high magnetic ...

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Types Of Magnetic  
Core Materials For

*Page 20/31*

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Transformers | Custom

... Selection For  
transformer. At high  
frequencies, cores with  
unused window area pro-  
duce excessive core  
losses due to the  
unnecessary magnetic  
path length of the core.

It is advisable in this  
case to select a core  
with a smaller diameter,  
but with the same cross-  
sectional area, to insure

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that the windings will completely fill the core window. Figure 4

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Core Selection for Saturating Transformers  
Selection of the

magnetic core for the transformer depends on the shape and material.

The physical diagram shown for the core in

Fig. 21.6 is updated

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when you select another  
shape such as a toroid,  
EE or UU.

## Transformers And Inductors A

Magnetic Core - an  
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Core Selection by

WaAc Product. The  
power handling capacity  
of a transformer core

can also be determined

by its WaAc product,

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where  $W_a$  is the available core window area, and  $A_c$  is the effective core cross-sectional area. Using the equation shown below, calculate the  $W_a A_c$  product and then use the Area Product Distribution ( $W_a A_c$ ) Chart to select the appropriate core.  $W_a A_c$  = Product of window area and core area (cm

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4)  $P_o$  = Power Out  
(watts)

# Selection For Transformers

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Magnetics -  
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Cores

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The Purpose of the  
Magnetic Core The  
fundamental purpose of  
any magnetic core is to  
provide an easy path for  
flux in order to facilitate  
flux linkage, or  
coupling, between two  
or more mag-netic  
elements. It serves as a

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"magnetic bus bar" to connect a magnetic source to a magnetic "load". In a true transformer application, the magnetic

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Amorphous Steel Core: A  
ideal for high  
temperature, high  
efficiency, or medium  
frequency transformers;  
one of the most  
commonly implemented  
transformer core  
materials. Solid Iron  
Core : This core

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material is able to  
produce high magnetic  
fields without iron  
saturation; DC  
applications are typical  
use cases.

# Practice And Specifications

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