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material was added on converter simulation using averaged switch models, current mode control, input filter design and Middlebrook's extra element theorem, improved explanations of proximity losses and MMF diagrams, and soft switching.

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Current Feedback And

A PI Compensator. In  
Some Applications, It Is

Desired To Control The  
Converter Input

Terminal Current

Waveform. The Boost

Converter System Of

Fig9.44 Contains A

Feedback Loop Which

Causes The Converter

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equations and two  
unknowns (V and D2):  
 $V = V_g D_1 D_1 + 2 V$   
 $R = D_1 T_s 2L (D_1 + D$   
 $2)(V_g \dots$  Fundamentals  
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Chapter 5:

Discontinuous

conduction mode22

Mode boundary 0 0.05

0.1 0.15  $K_{crit} (D) 0 0.2$

0.4 0.6 0.8 1  $D K K < K$

$crit DCM CCM CCM K >$

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$K_{crit} > K_{crit} (D)$  for

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