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 $C^\infty(W, R^3)$   $\text{curl } C^\infty(W, R^3)$   $\text{div } C^\infty(W)$   $L^0$   $N$ -  
 $D: 0$   $L^0(W)$   $L^1(W)$   $L^2(W)$   $L^k(W)$   $L^n(W)$   $L^0$  The Space  
 $L^k(W) = C^\infty(W, R^{\binom{N}{k}})$ , The Space Of Smooth  
Differential  $k$ -forms On  $W$ . Exterior Derivative:  $d: L^k(W) \rightarrow L^{k+1}(W)$   
Integral Of A  $k$ -form Over An Oriented  $k$ -simplex:  $\int_C \omega = \int_C \omega$   
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