

# H K Das Differential Calculus

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## H K Das Differential Calculus

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Differential Calculus In this chapter, it is assumed that all linear spaces and flat spaces under consideration are finite-dimensional 61 Differentiation of Processes Let  $E$  be a flat space with translation space  $V$  A mapping  $p: I \rightarrow E$  from some interval  $I \subseteq \text{SubR}$  to  $E$  will be called a process It is useful to think

### ANALYSIS 1 (Differential- und Integralrechnung in R

$k=1$   $h(n)$   $k$   $f(x)$   $(n)$   $k \rightarrow \mathbb{Z}$   $a$   $f(x)dx$   $(n \rightarrow \infty)$  Mit der Differentiation und Integration von Funktionen stehen die Grundkonzepte der klassischen Analysis bereit Darauf aufbauend wird im abschließenden Kapiteln 7 die Approximation von periodischen Funktionen durch trigonometrische Polynome in Form ihrer Fourier-Reihe  $f(x) = \frac{1}{2} a_0 + \sum_{k=1}^{\infty} X$

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Engineering Mathematics - I Dr V Loksha 10 MAT11 8 2011 Leibnitz's Theorem : It provides a useful formula for computing the  $n$ th derivative of a product of two functions Statement : If  $u$  and  $v$  are any two functions of  $x$  with  $u^{(n)}$  and  $v^{(n)}$  as their  $n$ th derivative Then the  $n$ th derivative of  $uv$  is

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