



Differential- und Integralrechnung II. TL2

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Condition: New. Publisher/Verlag: Springer, Berlin | Differentialrechnung in mehreren Veränderlichen, Differentialgleichungen | differenzierbar, wenn es eine in x_0 stetige Abbildung $x \mapsto f(x)$ gibt, so daß $f(x) = f(x_0) + A(x - x_0) + o(\|x - x_0\|)$ gilt. Diese Definition überträgt sich auf den Fall, wo x_0 Punkt eines separierten topologischen Vektorraumes E ist und die Werte von f in einem ebensolchen Vektorraum F liegen. Man hat dazu den Raum $\text{Hom}(E, F)$ der stetigen linearen Abbildungen von E in F mit einer Pseudotopologie zu versehen: Man betrachtet z. B. genau die Filter \mathcal{F} auf $\text{Hom}(E, F)$ als gegen 0 konvergent, die folgende Eigenschaft haben: Für jeden Filter \mathcal{F} auf $\text{Hom}(E, F)$ gilt $\mathcal{F} \rightarrow 0$ in F . Dabei ist m der Filter der Nullumgebungen in F , $\mathcal{F} \rightarrow 0$ wird von den N_A mit $N \in m$ und $A \in \mathcal{F}$ erzeugt, \mathcal{F} von den $L(A) = \{x \in E \mid Ax \in N\}$ mit $L \in \mathcal{F}$ und $A \in m$. Man kann nun die Differenzierbarkeit f an x_0 wie oben definieren, nur ist unter $x \mapsto f(x)$ jetzt eine in x_0 stetige Abbildung von U in $\text{Hom}(E, F)$ zu...

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