$$\frac{d\varphi_{t}(\mathbf{p})}{dt}\Big|_{t=0} = \frac{d(\mathbf{p}+t\mathbf{v})}{dt}\Big|_{t=0} = \mathbf{v}.: 定数ベットル$$

。回転

A(t): 直交行列からなる1経数変換符

$$\Leftrightarrow$$
 A(t) A(s) = A(t+\varepsilon) , A(0) = I.

これに対応する無限小変換 (補題2152の作り方)

$$V(x) = \frac{dA(t)}{dt}\Big|_{t=0} = \frac{dA(t)}{dt}\Big|_{t=0} x$$

$$\frac{dA(t)}{dt}\Big|_{t=0} = B \qquad \text{217} \qquad V = V_B \quad \text{242} \qquad \text{1.7} \qquad$$

Δ この Β がみたすべき条件

$$\times$$
 $A(t) \in O(3)$ J' $^{t}A(t)A(t) = I$

$$= \frac{d^{t}A(t)}{dt}A(t) + {}^{t}A(t)\frac{dA(t)}{dt}\Big|_{t=0}$$