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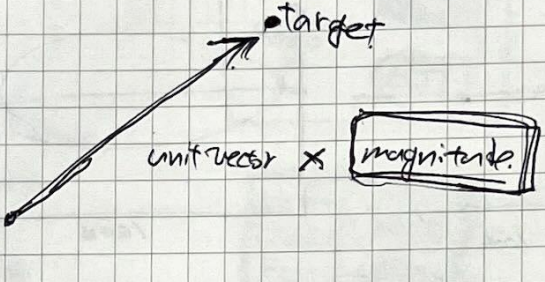
① ~~Virtual~~ Field

attractive

$U_{att}(q) = \frac{1}{2}\zeta \rho^2$



$$U_{att}(q) = \begin{cases} \frac{1}{2}\zeta \|q - q_{target}\|^2 & : \|q - q_{target}\| \le d \\ d\zeta \|q - q_{target}\|^2 & : \ge d \\ \quad - \frac{1}{2}\zeta d^2 & \end{cases}$$