subset Deta Sps S is oriented. A region RCS is simply-connected of A is homeomorphic to a disk and the boundary (topologically same! 1-1, onto, cts, cts inv.) of R is the image of a s.-c.-p.r. curve a. Basically i no holes. Alti - sps N points att at page. The body curve & is positively oriented relative to R if the orthog basis $\{\overline{x}'(t), \overline{h}(t), N\}$ is right handled and $\overline{h}(t)$ points in to K.

(R on left)

, some chart (x, u)

Deta Sps $R < \bar{x}(U) \subset S$ and f is a difficle function on S. The integral of f over R, denoted If f dA is: ~ account $\iint_{X^{-1}(R)} f(\overline{x}(u,v)) \sqrt{Eb - F^2} \, du \, dv$ how to compute notation domain of f Rull back to uv-space via chart.... can show defin is indep. of chorce of chart.