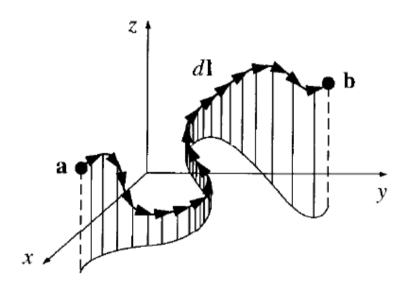
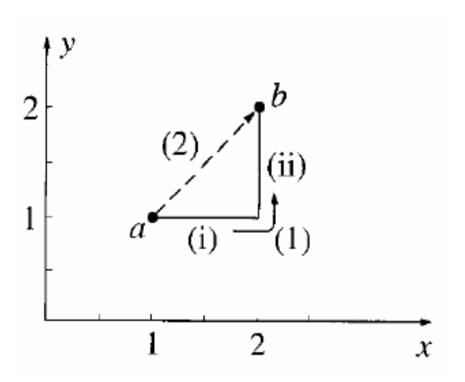
Vector Line Integration

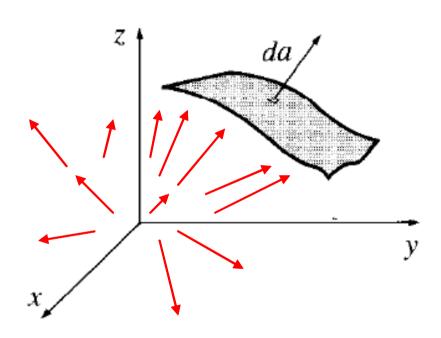


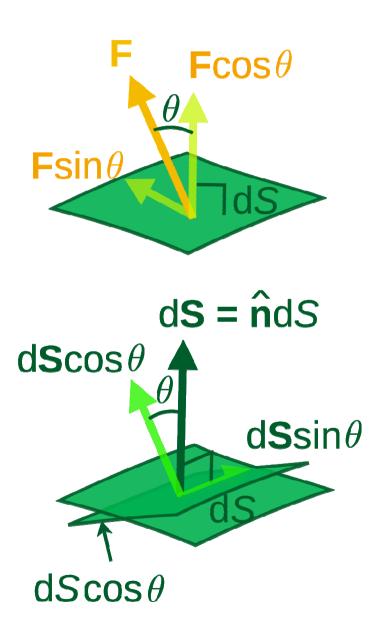
$$(i) \quad \vec{V} = -y\hat{i} + x\hat{j}$$

$$(ii) \vec{V} = x\hat{i} + y\hat{j}$$

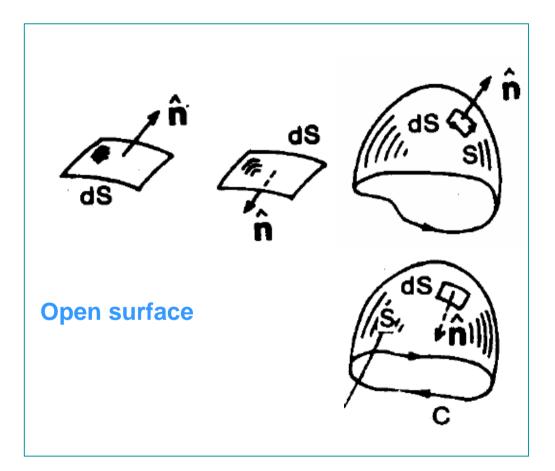


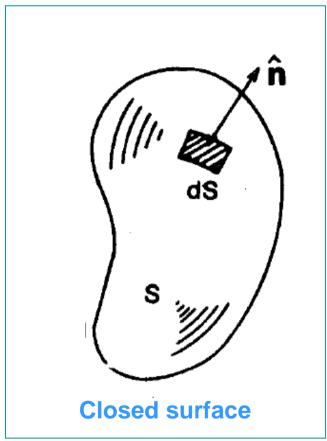
Vector Surface Integral





Vector surface Integral





$$(i) \quad \vec{V_1} = -y\hat{i} + x\hat{j}$$

$$(ii) \quad \overline{V}_2 = -y\hat{i} + xy\hat{j}$$

$$(iii) \quad \vec{V}_3 = xy\hat{i} + yz\hat{j} + zx\hat{k}$$

