

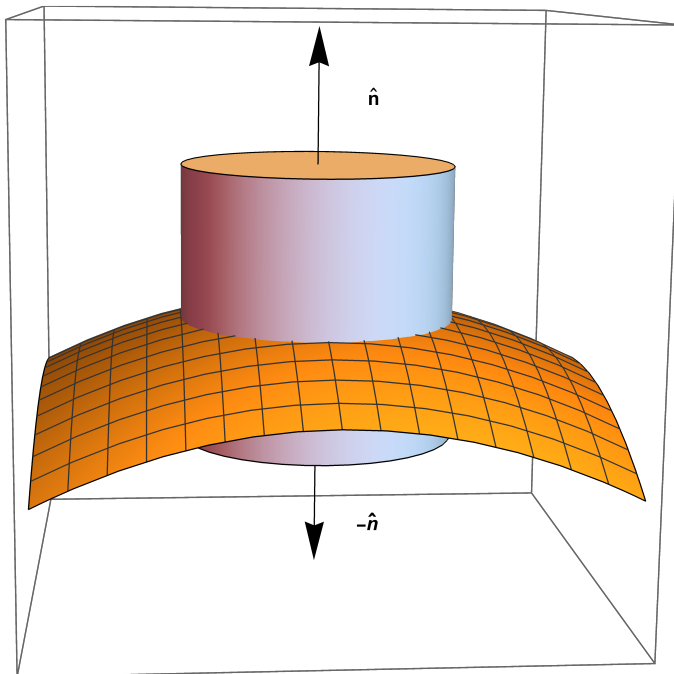
Figure for pillbox integration volume.

```
<< peeters` ;
peeters`setGitDir[ "../project/figures/GAelectrodynamics" ]

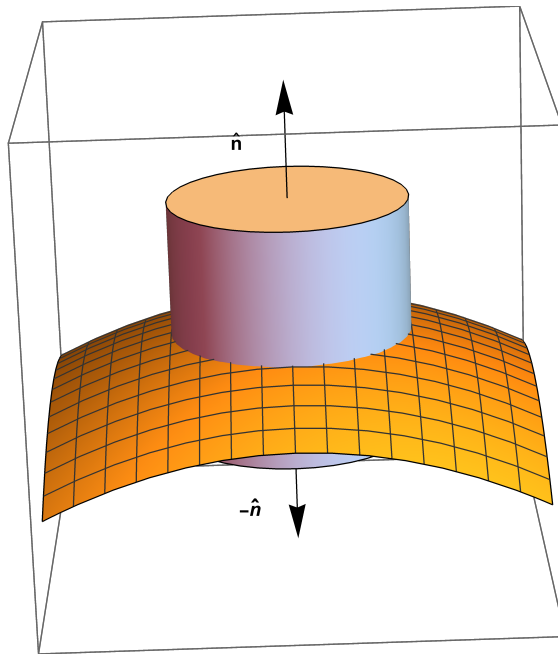
p1 = Plot3D[{-x^2 / 4 - y^2 / 4}, {x, -1, 1},
  {y, -1, 1}, PlotRange -> {{-1, 1}, {-1, 1}, {-2, 2}}];
(*p2 = Plot3D[{x^2 - y^2}, {x,0,1}, {y,0,1}];*)
t = {0, 0, 1/2};
bold = Style[#, Bold, Larger] &;
g = Show[
  Graphics3D[{
    (*Opacity[1],*)
    Cylinder[{-t, t}, 1/2],
    Arrow[{t, 2 t}],
    Arrow[{-t, -2 t}],
    Text[ OverHat[bold["n"]], 1.5 t + {0.2, 0, 0} ],

    Text[ bold["-n̂"], - 1.7 t + {0.2, 0, 0} ]

  ]], p1
]
```



```
g2 = Show[g, ViewPoint -> {0, 2 Pi, 2}]
```



```
(*$VersionNumber*)
```

```
peeters`exportForLatex["pillboxFig1", g2]  
{pillboxFig1.eps, pillboxFig1pn.png}
```