dī = Q wRsinBRdb = Qw sinbdb B = No Qw Sinbdb = No Qw \\
\[\frac{1}{8\pi R} \frac{1}{3} \]

5.16 i)
$$\vec{B} = \mu J(n_2 - n_1) \hat{z}$$
 ii) $\vec{B} = \mu J(n_2 \hat{z})$ iii) $\vec{B} = 0$.

5.19 This does not matter because $\vec{J} \cdot \vec{J} \vec{a}$ how the with any arbitrary surface because \vec{J} has no divergence.

5.21) A rere pere's Law consistently with electrodynamics.

Its not consistent because it says $\vec{D} \times \vec{B} = \mu_0 \vec{J}$ But if you use 5.29 you get $\vec{D} \cdot (\vec{D} \times \vec{B}) \cdot \vec{\mu}$. $\vec{D} \cdot \vec{D} \cdot \vec{J} = 0$.

The other Maxwell Equations do not have this issue. So Ampac's Law needs some work doze to it!

5.23 Cet magnetic vector potential of a finite section of a thin straigh wine with casent $\vec{J} \cdot \vec{D} \cdot \vec{J} \cdot$