


Ley de biot

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$$d\mathbf{B} = \frac{\mu_0}{4\pi} \frac{I d\mathbf{l} \times \mathbf{r}}{r^3}$$
 where μ_0 is the magnetic vacuum permeability, and \mathbf{r} is a unit vector vector with a vector \mathbf{r} pointing from dl to the point. He said, he said, he said, he said. In the case of current distributed in volume, the contribution of each volume of the distribution element, it's given by:
$$d\mathbf{B} = \frac{\mu_0}{4\pi} \frac{J dV \times \mathbf{r}}{r^3}$$
 The current density in the volume element dV is \mathbf{J} . The relative position \mathbf{r} is the point at which you want to calculate the field is the relative position of the point in which you want to calculate the field, relative to the volume element in question. In both cases, the final field is the result of the application of the overlapping principle through the expression:
$$\mathbf{B} = \int d\mathbf{B}$$
 He said, he said that he was a T - he said that I. In a generalized approximation, a generalized approximation can be determined if the current density \mathbf{j} :
$$\mathbf{B} = \frac{\mu_0}{4\pi} \int \frac{\mathbf{j} \times \mathbf{r}}{r^3} dV$$
 Biot Divergencia и вращение стационарного магнитного поля можно найти путем простого применения таких операторов к закону Biot и Savart Divergence Применяя оператора nabla к выражению, у вас есть:
$$\nabla \cdot \mathbf{B} = \mu_0 \int \nabla \cdot (\mathbf{J} \times \mathbf{r} / r^2) dV$$
 Applying the corresponding vector identity:
$$\nabla \cdot (\mathbf{A} \times \mathbf{B}) = \mathbf{B} \cdot \nabla \times \mathbf{A} - \mathbf{A} \cdot \nabla \times \mathbf{B}$$
 you have:
$$\nabla \cdot \mathbf{B} = \mu_0 \int \nabla \cdot (\mathbf{J} \times \mathbf{r} / r^2) dV = \mu_0 \int \mathbf{J} \cdot \nabla \times (\mathbf{r} / r^2) dV$$
 Applying the corresponding vector identity and knowing that
$$\nabla \times (\mathbf{r} / r^2) = -\mathbf{r} / r^3$$
 you have:
$$\nabla \cdot \mathbf{B} = -\mu_0 \int \mathbf{J} \cdot \mathbf{r} / r^3 dV$$
 Performing the integration is finally obtained:
$$\nabla \times \mathbf{B} = \mu_0 \mathbf{J}$$
 'displacement current'. See also Jean-Baptiste Biot Felix Savart Magnetism Vorticity Data: No 171340 Multimedia: Biot-Savart Law obtained from ley de biot savart. ley de biot-savart pdf. ley de biot savart aplicaciones. ley de biot savart formula. ley de biot savart ejercicios resueltos. ley de biot química orgánica. ley de biot savart ejercicios. ley de biot quimica

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