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MATICS : Jurnal Ilmu Komputer dan Teknologi Informasi ISSN : 1978-161X(p); 2477-2550(e)
Volume 9, No. 1(2017), pp 33-40

DOI : 10.18860/mat.v9i1.XXXX

Received : January25th 2020; **Accepted** : March 9th 2020 ; **Avalaible Online** : April 5th 2020

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Use either SI (MKS) or CGS as primary units. (SI units are strongly encouraged.) The SI unit for magnetic field strength *H* is A/m.)." An exception is when English units are used as identifiers in trade, such as "3½ in disk drive." Avoid combining SI and CGS units, such as current in amperes and magnetic field in oersteds. This often leads to confusion because equations do not balance dimensionally. If you must use mixed units, clearly state the units for each quantity in an equation.

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Table 1. Units for Magnetic Properties

No vertical lines in table. Statements that serve as captions for the entire table do not need footnote letters.

[a]Gaussian units are the same as cgs emu for magnetostatics; Mx = maxwell, G = gauss, Oe = oersted; Wb = weber, V = volt, s = second, T = tesla, m = meter, A = ampere, J = joule, kg = kilogram, H = henry.

Fig. 1. SRM geometry with FEM mesh: 6/6 stator/rotor

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Fig. 2. Torque characteristics versus rotor position and different current density of exciting current: 6/6 stator/rotor

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$$U = R\,I \tag{1}$$

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$$\mathbf{U} = \mathbf{Z} \cdot \mathbf{I} \tag{2}$$

$$\int_0^{r_2} F(r,\varphi)\, dr\, d\varphi = [\sigma r_2 / (2\mu_0)] \cdot \int_0^{\infty} \exp(-\lambda\,|z_j - z_i|)\, \lambda^{-1} J_1(\lambda r_2)\, J_0(\lambda r_i)\, d\lambda\,. \tag{3}$$

B. Units

Use either SI (MKS) or CGS as primary units. (SI units are strongly encouraged.) English units may be used as secondary units (in parentheses). **This applies to papers in data storage.** For example, write "15 Gb/cm^2 (100 Gb/in^2)." An exception is when English units are used as identifiers in trade, such as "3½ in disk drive." Avoid combining SI and CGS units, such as current in amperes and magnetic field in oersteds. This often leads to confusion because equations do not balance dimensionally. If you must use mixed units, clearly state the units for each quantity in an equation.

The SI unit for magnetic field strength H is A/m. However, if you wish to use units of T, either refer to magnetic flux density B or magnetic field strength symbolized as $\mu_0 H$. Use the center dot to separate compound units, e.g., "A·m^2."

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