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Preparation of Papers For Smartics Journal

(Center, Bold, Times New Roman 24pt, maximum 16 words)

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Abstract—These instructions give you guidelines for preparing papers for SMARTICS Journal. Use this document as a template if you are using Microsoft Word 6.0 or later. Otherwise, use this document as an instruction set. The electronic file of your paper will be formatted further at SMARTICS. Define all symbols used in the abstract. Do not cite references in the abstract. Do not delete the blank line immediately above the abstract; it sets the footnote at the bottom of this column.

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II. UNITS

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 " $3\frac{1}{2}$ 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 is that serve as captions for the entire ta

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

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

$$\int_{0}^{r_{2}} F(r, \varphi) dr d\varphi = [\sigma r_{2} / (2\mu_{0})]$$

$$\int_{0}^{\infty} \exp(-\lambda |z_{j} - z_{i}|) \lambda^{-1} J_{1}(\lambda r_{2}) J_{0}(\lambda r_{i}) d\lambda.$$
(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/cm² (100 Gb/in²)." 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·m²."

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The preferred spelling of the word "acknowledgment" in American English is without an "e" after the "g." Use the singular heading even if you have many acknowledgments. Avoid expressions such as "One of us (S.B.A.) would like to thank" Instead, write "F. A. Author thanks "Sponsor and financial support acknowledgments are placed in the unnumbered footnote on the first page.

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