# Template for submission of papers to IETE Journal of Research

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## ABSTRACT

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## 1. INTRODUCTION

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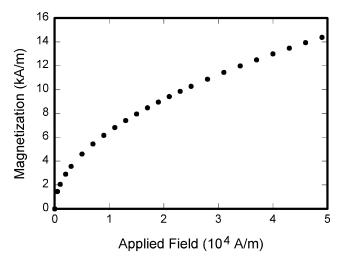
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**Figure 1.** Magnetization as a function of applied field. Note that "Fig." is abbreviated. There is a period after the figure number, followed by two spaces. It is good practice to explain the significance of the figure in the caption.

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Table 1: Units of magnetic induction

Symbol	Quantity	Conversion from Gaussian and CGS EMU to SI <sup>a</sup>
Φ	magnetic flux	$1 \text{ Mx} \rightarrow 10^{-8} \text{ Wb} = 10^{-8} \text{ V} \cdot \text{s}$
В	magnetic flux density, magnetic induction	$1~G \to 10^{-4}~T = 10^{-4}~Wb/m^2$
Н	magnetic field strength	$1 \text{ Oe} \rightarrow 10^3/(4\pi) \text{ A/m}$
т	magnetic moment	1  erg/G = 1  emu
		$\rightarrow 10^{-3} \text{ A} \cdot \text{m}^2 = 10^{-3} \text{ J/T}$
М	magnetization	$1 \text{ erg/(G} \cdot \text{cm}^3) = 1 \text{ emu/cm}^3$
		$\rightarrow 10^3 \text{ A/m}$
$4\pi M$	magnetization	$1 \text{ G} \rightarrow 10^{3/(4\pi)} \text{ A/m}$
σ	specific magnetization	$1 \text{ erg/(G \cdot g)} = 1 \text{ emu/g} \rightarrow 1 \text{ A} \cdot \text{m}^2/\text{kg}$
j	magnetic dipole	1  erg/G = 1  emu
	moment	$\rightarrow 4\pi \times 10^{-10} \text{ Wb} \cdot \text{m}$
J	magnetic polarization	$1 \text{ erg/(G} \cdot \text{cm}^3) = 1 \text{ emu/cm}^3$
		$\rightarrow 4\pi \times 10^{-4} \mathrm{T}$
χ, κ	susceptibility	$1 \rightarrow 4\pi$
χρ	mass susceptibility	$1 \text{ cm}^3/\text{g} \rightarrow 4\pi \times 10^{-3} \text{ m}^3/\text{kg}$
μ	permeability	$1 \rightarrow 4\pi \times 10^{-7} \text{ H/m}$
		$=4\pi \times 10^{-7} \text{ Wb/(A·m)}$
$\mu_r$	relative permeability	$\mu \rightarrow \mu_r$
w, W	energy density	$1 \text{ erg/cm}^3 \rightarrow 10^{-1} \text{ J/m}^3$
N, D	demagnetizing factor	$1 \rightarrow 1/(4\pi)$

Vertical lines are optional in tables. Statements that serve as captions for the entire table do not need footnote letters.

<sup>a</sup>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.

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Be aware of the different meanings of the homophones "affect" (usually a verb) and "effect" (usually a noun), "complement" and "compliment," "discreet" and "discrete," "principal" (e.g., "principal investigator") and "principle" (e.g., "principle of measurement"). Do not confuse "imply" and "infer."

Prefixes such as "non," "sub," "micro," "multi," and "ultra" are not independent words; they should be joined to the words they modify, usually without a hyphen. There is no period after the "et" in the Latin abbreviation "*et al.*" (it is also italicized). The abbreviation "i.e.," means "that is," and the abbreviation "e.g.," means "for example" (these abbreviations are not italicized).

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## 8. CONCLUSION

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#### APPENDIX

Appendixes, if needed, appear before the acknowledgment.

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