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ABSTRACT

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Keywords:

About six to fifteen key words or phrases in alphabetical order, separated by commas. For a list of suggested keywords, visit http://www.ieee.org/organizations/pubs/ani_prod/keywrd98.txt

1. INTRODUCTION

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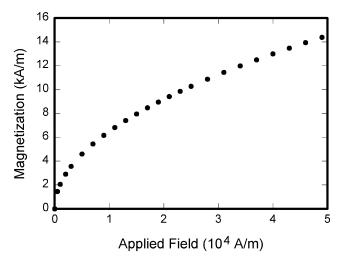


Figure 1. Magnetization as a function of applied field. Note that "Fig." is abbreviated. There is a period after the figure number, followed by two spaces. It is good practice to explain the significance of the figure in the caption.

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Table 1: Units of magnetic induction

Symbol	Quantity	Conversion from Gaussian and CGS EMU to SI ^a
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	$1 \rightarrow 4\pi \times 10^{-7} \text{ H/m}$
		$=4\pi \times 10^{-7} \text{ Wb/(A·m)}$
μ_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.

^aGaussian 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."

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8. CONCLUSION

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APPENDIX

Appendixes, if needed, appear before the acknowledgment.

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