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$$\int_0^{r_2} F(r, \varphi) dr d\varphi = \left[ \sigma r_2 / (2\mu_0) \right]$$

$$\int_0^{+\infty} exp(-\lambda |z_j - z_i|) \lambda^{-1} J_1(\lambda r_2) J_0(\lambda r_1) d\lambda$$
(1)

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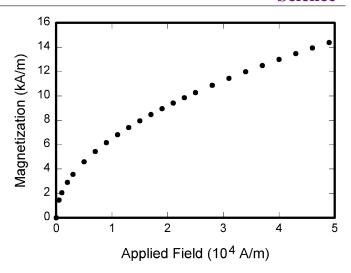


Fig. 1: Magnetization as a function of applied field. Note that "Fig." is abbreviated. There is a period after the figure number, followed by two spaces. It is good practice to explain the significance of the figure in the caption.

UNITS FOR MAGNETIC PROPERTIES

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Symbol	Quantity	Conversion from Gaussian and
- Symbol		CGS EMU to SI <sup>a</sup>
Φ	magnetic flux	$1 Mx \rightarrow 10^{-8} Wb = 10^{-8} V \cdot S$
В	magnetic flux density,	$1 \ G \to 10^{-4} \ T = 10^{-4} \ Wb/m^2$
	magnetic induction	
Н	magnetic field strength	$1 \ Oe \to 10^3/(4\pi) \ A/m$
m	magnetic moment	$1 \ erg/G = 1 \ emu \rightarrow 10^{-3} \ A \cdot m^2 =$
111		$10^{-3}A/m$
M	magnetization	$1 \ erg/(G \cdot cm^3) = 1 \ emu/cm^3 \rightarrow$
	-	$10^3 \ A/m$
$4\pi M$	magnetization	$1 \ G \to 10^3/(4\pi) \ A/m$
σ	specific magnetization	$1  erg/(G \cdot g) = 1  emu/g \rightarrow$
Ü	1 0	$1 A \cdot m^2/kg$
j	magnetic dipole	$1 \qquad erg/G = 1 \qquad emu \rightarrow$
3	moment	$4\pi \times 10^{-10} \ Wb \cdot m$
J	magnetic polarization	$1 \ erg/(G \cdot cm^3) = 1 \ emu/cm^3 \rightarrow$
		$4\pi \times 10^{-4} T$
$\chi, \kappa$	susceptibility	$1 \rightarrow 4\pi$
χρ	mass susceptibility	$1 cm^3/g \rightarrow 4\pi \times 10 - 3 m^3/kg$
μ	permeability	$1 \rightarrow 4 \pi \times 10^{-7} H/m = 4\pi \times$
-		$10-7 Wb/(A \cdot m)$
$\mu_{p}$	relative permeability	$\mu \rightarrow \mu_r$
w,W	energy density	
N,D	demagnetizing factor	$1 \rightarrow 1/(4\pi)$

TABLE I: 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 cg 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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#### REFERENCES

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