# **Preparation of Papers for AIAA Technical Journals**

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## Nomenclature

(Nomenclature entries should have the units identified)

A = amplitude of oscillation

a = cylinder diameter

 $C_p$  = pressure coefficient

- Cx = force coefficient in the x direction
- Cy = force coefficient in the y direction
- c = chord
- dt = time step
- Fx = X component of the resultant pressure force acting on the vehicle
- Fy = Y component of the resultant pressure force acting on the vehicle
- f,g = generic functions

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h = height

*i* = time index during navigation

j = waypoint index

K = trailing-edge (TE) nondimensional angular deflection rate

 $\Theta$  = boundary-layer momentum thickness

 $\rho$  = density

Subscripts

cg = center of gravity

G = generator body

iso = waypoint index

# **I. Introduction**

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	Transition					
Line	ν"	-	$J^{\prime\prime}$	Frequency, cm <sup>-1</sup>	FJ, cm <sup>-1</sup>	$G\nu$ , cm <sup>-1</sup>
a	0	P <sub>12</sub>	2.5	44069.416	73.58	948.66
b	1	$R_2$	2.5	42229.348	73.41	2824.76
c	2	R <sub>21</sub>	805	40562.179	71.37	4672.68
d	0	$R_2$	23.5	42516.527	1045.85	948.76

 Table 1
 Transitions selected for thermometry

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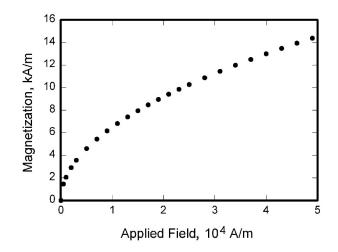


Fig. 1 Magnetization as a function of applied fields.

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A sample equation is included here, formatted using the preceding instructions:

$$\int_{0}^{r_2} F(r,\varphi) \mathrm{d}r \,\mathrm{d}\varphi = \left[\sigma r_2/(2\mu_0)\right] \int_{0}^{\infty} \exp(-\lambda |z_j - z_i|) \lambda^{-1} J_1(\lambda r_2) J_0(\lambda r_i \,\lambda \mathrm{d}\lambda) \tag{1}$$

Be sure that symbols in your equation are defined in the Nomenclature or immediately following the equation. Also define abbreviations and acronyms the first time they are used in the main text. (Very common abbreviations such as

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Use only one space after periods or colons. Hyphenate complex modifiers: "zero-field-cooled magnetization." Insert a zero before decimal points: "0.25," not ".25." Use "cm<sup>2</sup>" not "cc."

A parenthetical statement at the end of a sentence is punctuated outside of the closing parenthesis (like this). (A parenthetical sentence is punctuated within parenthesis.) Use American, not English, spellings (e.g., "color," not "colour"). The serial comma is preferred: "A, B, and C" instead of "A, B and C."

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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# Appendix

An Appendix, if needed, appears before research funding information and other acknowledgments.

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## Acknowledgments

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# References

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