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1 General Guidance

Tables, Figures and Captions

In Eq. (13), (14), and (16)

In Fig. 4(a)

In Ref. 5

Dates and numbers

02 February 2016 (no commas)

four or fewer numbers closed up:

1200

24.0032 cm

Five or more digits, spaces instead of commas:

12 000

24.077 89 cm

one through ten

11,12 and above

2x2 matrix (numerals)

0.03 and 106.0(no “naked” decimal points)

6 V (number before units are always numerals)

1D, 2D, 3D

Punctuation

en-dash: Paris–London train, (1950–), University of Wisconsin–Madison

serial commas (a, b, and c)

hyphenate multi-word modifiers: macro-time

parenthesis:

inserted into another sentence, no period (such as this).

isolated, period inside. (Such as this.)

pairs surrounded letters in innumeration list (a) and (b)

possessives: Smith and Green’s theory

plurals:

1950s

x’s, K’s

quotation marks after commas and periods, before colons and semi-colons

Abbreviations

Plural add ’s: LCAO’s

2 Specific words and terms

A

α particle
ad hoc
à la
 anti-compounds closed (antilogarithm)

B

burnup (n)

C

Cartesian
 collision-flux estimator
 cross-section (n)
 cross term

D

delta-tracking
 Doppler
 downscatter

E

eigenfunction
 eigenvalue

F

Fourier transform/analysis/spectra

G

Gauss-Seidel (adj)

H

half-compound hyphenated:
 half-life
 halfway

I

indexes (to book)
 indices (to variable)
in situ

J

K

L

Laplacian
 l.h.s.
 lifetime

M

Maxwell(ian)
 midpoint
 modeling
 multigroup
 multivariate

N

non-compound closed:
 nonelastic
 nonradioactive
 but proper noun, symbol, numeral:
 non-Fermi
 12-fold

O

P

path length

Q

R

radioactive
 ray tracing
 r.h.s.
 runtime

S

setup
 self-compound hyphenated:
 self-shielded (adj)
 semiempirical
 semi-infinite

T

track length

track-length estimator

U

upscatter

uranium

V**W**

waveheight

wavelength

X

x ray (n)

x-ray (adj)

Y**Z**

3 Math and notation

Cross-sections

macroscopic: $\tilde{\sigma}$

microscopic: σ

Matrices

Bold capital letters, **A**.

Use brackets (`\bmatrix`) for normal matrix, pipes (`\vmatrix`) for determinants, and double pipes (`\Vmatrix`) for a matrix norm.

Vectors

Topped with an arrow, $\vec{\phi}$. Vector superscripts must be shifted slightly using `\vec{\phi}^{\ell}`. For comparison:

$$\begin{aligned}\vec{\phi}^{\ell} &: \vec{x}^{\ell} \\ \vec{x}^{\ell} &: \vec{x}^{\ell}\end{aligned}$$

Use hats to denote unit vectors, $\hat{\Omega}$.

In general, if a vector is made up of other vectors, use a capital letter for the larger vector, and lowercase for the smaller vectors.

$$\vec{\Phi} = \begin{bmatrix} \vec{\phi}_0 \\ \vec{\phi}_1 \end{bmatrix}$$