

Instructions for Authors

Typescripts, to be submitted in duplicate, should include in the following order: title, author's name, address of author's institution, abstract, text of the paper, acknowledgement, list of references, and, separately, list of captions to figures and tables. All papers must have an *English abstract* and, if not written in English, an *English translation of the title*. The abstract should not exceed 200 words and should be adequate for publication without change in abstracting journals.

The printout should be *fully double-spaced*, on one side of letter-size (or ISO A4), white bond paper. Form and contents should be carefully checked to exclude the need for corrections in proof. The duplicate should be a photocopy of high quality.

To accelerate publication, papers should also be submitted in electronic format, on disk or by e-mail (metrologia@bipm.fr). For e-mail it is usually best to append the file of the text to a regular message; this allows us to retain all the formatting of the original.

Only page proofs will be sent to authors. These will show the paper as it will appear in the journal. It is therefore essential that manuscripts be submitted in their *final form*, ready for the printer, with the approximate positions of figures and tables marked in the margins. Typescripts that are not written concisely will be returned to the author(s) for revision.

Proof-reading should be limited to the correction of typographical errors. Any other changes involve time-consuming and expensive work, and the cost must be charged to the author.

Equations should be printed whenever possible with appropriate symbols. If there is no difference in size, special attention should be given to the placing of subscripts and superscripts so that they are recognizable as such. Formulae, in particular in the text, must be written in the "linear" form (see *Notations*). Equations should be numbered sequentially with arabic numerals in parentheses on the right-hand side of the page. In the text they are cited simply by the arabic numeral in parentheses, e.g. (7); the form Equation (7) or Equations (7) and (8) should be used only at the beginning of a sentence.

Figures and graphs should be kept to a minimum and must be referred to in the text. Their captions, on a separate sheet, should be numbered with arabic numerals. A single set of clean and clear drawings or prints will suffice. They should be *twice the final size* (column width 81 mm, page width 169 mm, page height 240 mm) so that corrections can be made if necessary. All symbols and letters should be sharp and black. Lettering and points representing data should be sufficiently large and clear (reduced to final size: letter height > 1.2 mm; line thickness > 0.1 mm). If figures must be redrawn, which will be at the author's expense, this will prolong the publication period.

Half-tone photographs should be clean glossy prints in sharp focus and as rich a contrast as possible. They should be trimmed at right angles. A charge may have to be made for half-tone illustrations, if too numerous.

Tables which for some reason are not to be typeset will be treated as figures and their lettering should therefore conform to the advice above.

Literature references in the text should be numbered sequentially with arabic numerals in square brackets, and listed in numerical order at the end of the paper. Multiple references should be cited individually as follows: [5, 6, 8]. Author(s) may be cited in the text by name, but without initials; if more than two, only the name of the first author followed by et al. should be stated, e.g. Sargent et al. [5]. The rules for citation are as follows: *journal papers* – names and initials of *all* authors, journal in the accepted abbreviation (in italics), year, volume (in bold), first and last page numbers; *books* – names and initials of *all* authors, full title (in italics), edition, place, publisher, year, number of pages; *articles in books* – names and initials of *all* authors, full title (in italics), edition or volume (in bold), editor(s), place, publisher, year, first and last page numbers; *reports* – title, year, volume (in bold), number of pages.

Examples:

1. Preston-Thomas H., Quinn T. J., Hudson R. P., *Metrologia*, 1979, **15**, 75-79.
2. Quinn T. J., *Temperature*, 2nd ed., London, Academic Press, 1990, 495 p.
3. Guggen D., In *Temperature: Its Measurement and Control in Science and Industry*, Vol. 5 (Edited by J. F. Schooley), New York, American Institute of Physics, 1982, 49-53.
4. *BIPM Proc.-Verb. Com. Int. Poids et Mesures*, 1989, **57**, 166 p.

For **abbreviations, symbols and units**, the author should follow internationally agreed rules such as those adopted by the Commissions of the International Union of Pure and Applied Physics (IUPAP) or defined by the International Organization for Standardization (ISO). For English-language texts, spelling must be consistent throughout: English spelling is preferred but American practice is acceptable; the authoritative references are taken to be the Oxford English Dictionary and Webster, respectively. Authors must employ the International System of Units, for which the prime reference is *Le Système International d'Unités (SI)* published by the Bureau International des Poids et Mesures, F-92312 Sèvres Cedex, France. Several translations of this document are currently available, each in the language of its country of origin. Departures from the SI are permissible for: (i) order-of-magnitude indications within the narrative, using everyday or traditional units such as months, atmosphere, etc.; (ii) actual quotations from other publications or from manufacturers' specifications for instruments; (iii) occasional use of a non-SI unit when it can be specifically justified by the author and, then, each item must be followed by the SI equivalent in parentheses.

Marking

Only one copy of the two submitted should be marked for the printer.

Letters in formulae are normally printed in italic, numbers in ordinary typeface.

The following symbols are frequently confused:

U u U; o O 0; x X; v V; φ φ Φ Ø; l I; ε ∈ ∈;

also the handwritten letters:

c C; k K; o O; p P; s S; u U; v V; w W; x X; z Z; e l;

c C; k K; o O; p P; s S; u U; v V; w W; x X; z Z; e l. Please take care to distinguish capital and small letters, roman and italic.

Notations

Preferred form	Instead of	Preferred form	Instead of	Preferred form	Instead of
$\exp[-(x^2 + y^2)/a^2]$	$e^{-\frac{x^2+y^2}{a^2}}$	$(a+b)/(c+d)$	$\frac{a+b}{c+d}$	$\frac{\cos(1/x)}{(a+b/x)^{1/2}}$	$\frac{\cos \frac{1}{x}}{\sqrt{a+\frac{b}{x}}}$
$N^{-1/2}(a+b)^{1/3}$	$\frac{1}{\sqrt{N}} \sqrt[3]{a+b}$	$\sum_{i=1}^n$	$\sum_{i=1}^n$		