Brief notes on preparing LaTeX manuscript for *Applied Physics Express* and *Japanese Journal of Applied Physics*

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This document briefly provides instructions on how to prepare your manuscript in LaTeX format. As regards general instructions for preparing manuscripts, please refer to "Instructions for Preparation of Manuscript", which is available at our Web site (`http://journals.jsap.jp`).

1. Introduction

You can use this file as a template to prepare your manuscript for *Applied Physics Express* (APEX)[1] and *Japanese Journal of Applied Physics* (JJAP).[2,3] Please note that `apex.cls` has been obsolete and embedded in `jjap3.cls` as a paper type option (see Table I).[4]

Copy `jjap3.cls`, `cite.sty`, and `overcite.sty` onto an arbitrary directory under the texmf tree, for example, `$texmf/tex/latex/jjap`. If you have already obtained `cite.sty` and `overcite.sty`, you do not need to copy them.

Many useful commands for equations are available because `jjap3.cls` automatically loads the `amsmath` package. Please refer to reference books on LaTeX for details on the `amsmath` package.

Label figures, tables, and equations appropriately using the `\label` command, and use the `\ref` command to cite them in the text as "`as shown in Fig. \ref{f1}`". This automatically labels the numbers in numerical order.

The `\citen` command enables you to display reference numbers inline. The usage is the same as that of the `\cite` command.

No footnotes to the text are allowed except for the title page that contains author(s)' information (use the `\thanks` command). You can provide comments on the reference list by use of the `bibitem` and `\cite(n)` commands.

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Table I.   List of options for paper types.

Option	Paper type
apex	Applied Physics Express
ip	Invited Reviews
pr	Progress Reviews
staprev	STAP Reviews
stapart	STAP Articles
rc	Rapid Communications
bn	Brief Notes
cr	Comments and Replies
er	Errata

Fig. 1.   Graphic files can be embedded using the \includegraphics command. Basically, figures should appear where they are cited in the text. You do not need to separate figures from the main text when you use LaTeX for preparing your manuscript.

For the top and bottom lines of a table, the \Hline command draws a thiker line than that drawn by \hline.

2. Options

2.1 Paper type

jjap3.cls has class options for paper types. You should choose the appropriate option listed in Table I. Default (without option) is for Regular Papers.

2.2 Two-column format

The twocolumn option may help estimate the length of your manuscript particularly for APEX, Rapid Communications (RC), and Brief Notes (BN), which have a limitation of **four** (APEX and RC) and **three** (BN) printed pages. If the newtx or txfonts package is available in your LaTeX system, you can estimate the length more accurately. However, prepare a one-column version when you submit your manuscript.

2.3 Equation numbers

The seceq option resets the equation numbers at the start of each section.

3. BibTeX

Unfortunately, it is not in the plan to create BibTeX style files for APEX/JJAP. Instead, those for APS or AIP can be used. See the comments in the preamble of this template.

Acknowledgment

If you need acknowledgment(s), use the `\acknowledgment` command. We have prepared variants of this command as `\acknowledgemnts`, `\acknowledgement`, and `\acknowledgements`.

Appendix

Use the \appendix command if you need an appendix(es). The \section command should follow even though there is no title for the appendix (see above in the source of this file).

References

1) The abbreviation for APEX should be "Appl. Phys. Express" in the reference list.
2) The abbreviation for JJAP should be "Jpn. J. Appl. Phys." in the reference list.
3) More abbreviations of journal titles are listed in "Instructions for Preparation of Manuscript", which is available at our Web site.
4) From jjap3.cls version 2.0 released on April 2011.