

How to Use the IEEEtran L^AT_EX Templates

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Abstract—This document provides a guide for preparing articles for Journal of Energy (Energija) based on the IEEEtran class. This document describes the most common article elements and how to use the IEEEtran class with L^AT_EX to produce files that are suitable for submission to the Institute of Electrical and Electronics Engineers (IEEE). IEEEtran can produce conference, journal and technical note (correspondence) papers with a suitable choice of class options.

Index Terms—Class, IEEEtran, L^AT_EX, paper, style, template, typesetting.

I. INTRODUCTION

WELCOME to the updated and simplified documentation to using the IEEEtran L^AT_EX class file. The IEEE has examined hundreds of author submissions using this package to help formulate this easy to follow guide. We will cover the most commonly used elements of a journal article. For less common elements we will refer back to the “IEEEtran_HOWTO.pdf”.

This document applies to version 1.8b of IEEEtran.

It is assumed that the reader has a basic working knowledge of L^AT_EX. Those who are new to L^AT_EX are encouraged to read Tobias Oetiker’s “The Not So Short Introduction to L^AT_EX”, available at: <http://tug.ctan.org/info/lshort/english/lshort.pdf> which provides an overview of working with L^AT_EX.

II. THE DESIGN, INTENT AND LIMITATIONS OF THE TEMPLATES

The templates are intended to **approximate the final look and page length of the articles/papers**. Therefore, they are **NOT intended to be the final produced work that is displayed in print or on the Journal of Energy (Energija) website**. They will help to give the authors an approximation of the number of pages that will be in the final version.

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III. L^AT_EX DISTRIBUTIONS: WHERE TO GET THEM

IEEE recommends using the distribution from the T_EX User Group at <http://www.tug.org>. You can join TUG and obtain a DVD distribution or download for free from the links provided on their website: <http://www.tug.org/texlive/>. The DVD includes distributions for Windows, Mac OS X and Linux operating systems.

IV. WHERE TO GET THE IEEETRAN TEMPLATES

For submission to Journal of Energy (Energija), please use the templates provided here: <http://www.journalofenergy.com/index.php/joe/information/authors>.

V. WHERE TO GET L^AT_EX HELP - USER GROUPS

The following on-line groups are very helpful to beginning and experienced L^AT_EX users. A search through their archives can provide many answers to common questions.

<http://www.latex-community.org/>

<https://tex.stackexchange.com/>

VI. DOCUMENT CLASS OPTIONS IN IEEETRAN

At the beginning of your L^AT_EX file you will need to establish what type of publication style you intend to use. The following list shows appropriate documentclass options for using IEEEtran class for Journal of Energy (Energija) submission.

Regular Journal Article

```
\documentclass[a4paper, journal]{IEEEtran}
```

There are other options available for each of these when submitting for peer review or other special requirements. We recommend to compose your article in the base 2-column format to make sure all your equations, tables and graphics will fit the final 2-column format. Please refer to the document “IEEEtran_HOWTO.pdf” for more information on settings for peer review submission if required by your EIC.

VII. HOW TO CREATE COMMON FRONT MATTER

The following sections describe general coding for these common elements. Computer Society publications and Conferences may have their own special variations and will be noted below.

A. Paper Title

The title of your paper is coded as:

```
\title{The Title of Your Paper}
```

Please try to avoid the use of math or chemical formulas in your title if possible.

B. Author Names and Affiliations

The author section should be coded as follows:

```
\author{Masahito Hayashi, Masaki Owari}
\thanks{M. Hayashi is with Graduate School
of Mathematics, Nagoya University, Nagoya,
Japan}
\thanks{M. Owari is with the Faculty of
Informatics, Shizuoka University,
Hamamatsu, Shizuoka, Japan.}
}
```

C. Running Heads

The running heads are declared by using the `\markboth` command. There are two arguments to this command: the first contains the journal name information and the second contains the author names and paper title.

```
\markboth{Journal of Quantum Electronics,
Vol. 1, No. 1, January 2021}
{Author1, Author2,
\MakeLowercase{\textit{(et al.)}}:
Paper Title}
```

D. Copyright Line

This is not necessary to use at the submission stage of your paper. The Journal of Energy (Energija) production process will add the appropriate copyright line. If you are writing a conference paper, please see the “IEEEtran_HOWTO.pdf” for specific information on how to code “Publication ID Marks”.

E. Abstracts

The abstract is the first element of a paper after the `\maketitle` macro is invoked. The coding is simply:

```
\begin{abstract}
Text of your abstract.
\end{abstract}
```

Please try to avoid mathematical and chemical formulas in the abstract.

F. Index Terms

The index terms are used to help other researchers discover your paper. Each society may have its own keyword set. Contact the EIC of your intended publication for this list.

```
\begin{IEEEkeywords}
Broad band networks, quality of service
\end{IEEEkeywords}
```

VIII. HOW TO CREATE COMMON BODY ELEMENTS

The following sections describe common body text elements and how to code them.

A. Initial Drop Cap Letter

The first text paragraph uses a “drop cap” followed by the first word in ALL CAPS. This is accomplished by using the `\IEEEPARstart` command as follows:

```
\IEEEPARstart{T}{his} is the first paragraph
of your paper. . .
```

B. Sections and Subsections

Section headings use standard L^AT_EX commands: `\section`, `\subsection` and `\subsubsection`. Numbering is handled automatically for you and varies according to type of publication. It is common to not indent the first paragraph following a section head by using `\noindent` as follows:

```
\section{Section Head}
\noindent The text of your paragraph . . .
```

C. Citations to the Bibliography

The coding for the citations are made with the L^AT_EX `\cite` command. This will produce individual bracketed reference numbers in the IEEE style. At the top of your L^AT_EX file you should include:

```
\usepackage{cite}
```

For a single citation code as follows:

```
see \cite{ams}
```

This will display as: see [1]

For multiple citations code as follows:

```
\cite{ams,oxford,lacomp}
```

This will display as [1], [2], [3]

D. Figures

Figures are coded with the standard L^AT_EX commands as follows:

```
\begin{figure}[!t]
\centering
\includegraphics[width=2.5in]{fig1}
\caption{This is the caption for one fig.}
\label{fig1}
\end{figure}
```

The `[!t]` argument enables floats to the top of the page to follow IEEE style. Make sure you include:

```
\usepackage{graphicx}
```

at the top of your L^AT_EX file with the other package declarations.

To cross-reference your figures in the text use the following code example:



Fig. 1. This is the caption for one fig.

See figure `\ref{fig1}` ...

This will produce:

See figure 1 ...

E. Tables

Tables should be coded with the standard \LaTeX coding. The following example shows a simple table.

```
\begin{table}
\begin{center}
\caption{Filter design equations ...}
\label{tab1}
\begin{tabular}{|c|c|c|}
\hline
Order & Arbitrary coefficients & coefficients \\
of filter &  $e_m$  &  $b_{ij}$  \\
\hline
1 &  $b_{ij} = \hat{e}.\hat{\beta}_{ij}$ , &  $b_{00} = 0$  \\
2 &  $\beta_{22} = (1, -1, -1, 1, 1, 1)$  & \\
\hline
3 &  $b_{ij} = \hat{e}.\hat{\beta}_{ij}$ , &  $b_{00} = 0$ , \\
\hline
\end{tabular}
\end{center}
\end{table}
```

To reference the table in the text, code as follows:

Table~`\ref{tab1}` lists the closed-form...

to produce:

Table I lists the closed-form ...

F. Lists

In this section, we will consider three types of lists: simple unnumbered, numbered and bulleted. There have been numerous options added to IEEEtran to enhance the creation

TABLE I
A SIMPLE TABLE EXAMPLE.

Order of filter	Arbitrary coefficients e_m	coefficients b_{ij}
1	$b_{ij} = \hat{e}.\hat{\beta}_{ij}$,	$b_{00} = 0$
2	$\beta_{22} = (1, -1, -1, 1, 1, 1)$	
3	$b_{ij} = \hat{e}.\hat{\beta}_{ij}$,	$b_{00} = 0$,

of lists. If your lists are more complex than those shown below, please refer to the “IEEEtran_HOWTO.pdf” for additional options.

A plain unnumbered list

bare_jrnl.tex
bare_conf.tex
bare_jrnl_compsoc.tex
bare_conf_compsoc.tex
bare_jrnl_comsoc.tex

coded as:

```
\begin{list}{}{}{}
\item{bare\_jrnl.tex}
\item{bare\_conf.tex}
\item{bare\_jrnl\_compsoc.tex}
\item{bare\_conf\_compsoc.tex}
\item{bare\_jrnl\_comsoc.tex}
\end{list}
```

A simple numbered list

- 1) bare_jrnl.tex
- 2) bare_conf.tex
- 3) bare_jrnl_compsoc.tex
- 4) bare_conf_compsoc.tex
- 5) bare_jrnl_comsoc.tex

coded as:

```
\begin{enumerate}
\item{bare\_jrnl.tex}
\item{bare\_conf.tex}
\item{bare\_jrnl\_compsoc.tex}
\item{bare\_conf\_compsoc.tex}
\item{bare\_jrnl\_comsoc.tex}
\end{enumerate}
```

A simple bulleted list

- bare_jrnl.tex
- bare_conf.tex
- bare_jrnl_compsoc.tex
- bare_conf_compsoc.tex
- bare_jrnl_comsoc.tex

coded as:

```
\begin{itemize}
\item{bare\_jrnl.tex}
\item{bare\_conf.tex}
\item{bare\_jrnl\_compsoc.tex}
\item{bare\_conf\_compsoc.tex}
\item{bare\_jrnl\_comsoc.tex}
\end{itemize}
```

G. Other Elements

For other less common elements such as Algorithms, Theorems and Proofs, and Floating Structures such as page-wide tables, figures or equations, please refer to the “IEEEtran_HOWTO.pdf” section on “Double Column Floats.”

IX. HOW TO CREATE COMMON BACK MATTER ELEMENTS

The following sections demonstrate common back matter elements such as Acknowledgments, Bibliographies, Appendices and Author Biographies.

A. Acknowledgments

This should be a simple paragraph before the bibliography to thank those individuals and institutions who have supported your work on this article.

```
\section{Acknowledgments}
\noindent Text describing those who
supported your paper.
```

B. Bibliographies

References Simplified: A simple way of composing references is to use the `\bibitem` macro to define the beginning of a reference as in the following examples:

[6] H. Sira-Ramirez. “On the sliding mode control of nonlinear systems,” *Systems & Control Letters*, vol. 19, pp. 303–312, 1992.

coded as:

```
\bibitem{Sira3}
H. Sira-Ramirez. ``On the sliding mode
control of nonlinear systems,’’
\textit{Systems & Control Letters},
vol. 19, pp. 303--312, 1992.
```

[7] A. Levant. “Exact differentiation of signals with unbounded higher derivatives,” in *Proceedings of the 45th IEEE Conference on Decision and Control*, San Diego, California, USA, pp. 5585–5590, 2006.

coded as:

```
\bibitem{Levant}
A. Levant. ``Exact differentiation of
signals with unbounded higher
derivatives,’’ in \textit{Proceedings
of the 45th IEEE Conference on
Decision and Control}, San Diego,
California, USA, pp. 5585--5590, 2006.
```

[8] M. Fliess, C. Join, and H. Sira-Ramirez. “Non-linear estimation is easy,” *International Journal of Modelling, Identification and Control*, vol. 4, no. 1, pp. 12–27, 2008.

coded as:

```
\bibitem{Cedric}
M. Fliess, C. Join, and H. Sira-Ramirez.
``Non-linear estimation is easy,’’
\textit{International Journal of Modelling,
```

Identification and Control}, vol. 4, no. 1, pp. 12--27, 2008.

[9] R. Ortega, A. Astolfi, G. Bastin, and H. Rodriguez. “Stabilization of food-chain systems using a port-controlled Hamiltonian description,” in *Proceedings of the American Control Conference*, Chicago, Illinois, USA, pp. 2245–2249, 2000.

coded as:

```
\bibitem{Ortega}
R. Ortega, A. Astolfi, G. Bastin, and H.
Rodriguez. ``Stabilization of food-chain
systems using a port-controlled Hamiltonian
description,’’ in \textit{Proceedings of the
American Control Conference}, Chicago,
Illinois, USA, pp. 2245--2249, 2000.
```

C. Accented Characters in References

When using accented characters in references, please use the standard LaTeX coding for accents. **Do not use math coding for character accents.** For example:

```
\'e, \"o, \"a, \"e
```

will produce: é, ö, à, ë

D. Use of BibTeX

If you wish to use BibTeX, please see the documentation that accompanies the IEEEtran Bibliography package.

E. Biographies and Author Photos

Authors may have options to include their photo or not. Photos should be a bit-map graphic (.tif or .jpg) and sized to fit in the space allowed. Please see the coding samples below:

```
\begin{IEEEbiographynophoto}{Jane Doe}
Biography text here without a photo.
\end{IEEEbiographynophoto}
```

or a biography with a photo

```
\begin{IEEEbiography}[\includegraphics
[width=1in,height=1.25in,clip,
keepaspectratio]{fig1.png}]{
{IEEE Publications Technology Team}
In this paragraph you can place
your educational, professional background
and research and other interests.
\end{IEEEbiography}
```

Please see the end of this document to see the output of these coding examples.

X. MATHEMATICAL TYPOGRAPHY AND WHY IT MATTERS

Typographical conventions for mathematical formulas have been developed to **provide uniformity and clarity of presentation across mathematical texts**. This enables the readers of those texts to both understand the author’s ideas and to

grasp new concepts quickly. While software such as L^AT_EX and MathType[®] can produce aesthetically pleasing math when used properly, it is also very easy to misuse the software, potentially resulting in incorrect math display.

IEEE aims to provide authors with the proper guidance on mathematical typesetting style and assist them in writing the best possible article.

As such, IEEE has assembled a set of examples of good and bad mathematical typesetting. You will see how various issues are dealt with. The following publications have been referenced in preparing this material:

Mathematics into Type, published by the American Mathematical Society

The Printing of Mathematics, published by Oxford University Press

The L^AT_EX Companion, by F. Mittelbach and M. Goossens

More Math into L^AT_EX, by G. Grätzer

AMS-StyleGuide-online.pdf, published by the American Mathematical Society

Further examples can be seen at <http://journals.ieeeauthorcenter.ieee.org/wp-content/uploads/sites/7/IEEE-Math-Typesetting-Guide.pdf>

A. Display Equations

A simple display equation example shown below uses the “equation” environment. To number the equations, use the `\label` macro to create an identifier for the equation. L^AT_EX will automatically number the equation for you.

$$x = \sum_{i=0}^n 2iQ. \quad (1)$$

is coded as follows:

```
\begin{equation}
\label{deqn_ex1}
x = \sum_{i=0}^n 2i Q.
\end{equation}
```

To reference this equation in the text use the `\ref` macro. Please see (1)

is coded as follows:

```
Please see (\ref{deqn_ex1})
```

B. Equation Numbering

Consecutive Numbering: Equations within an article are numbered consecutively from the beginning of the article to the end, i.e., (1), (2), (3), (4), (5), etc. Do not use roman numerals or section numbers for equation numbering.

Appendix Equations: The continuation of consecutively numbered equations is best in the Appendix, but numbering as (A1), (A2), etc., is permissible.

Hyphens and Periods: Hyphens and periods should not be used in equation numbers, i.e., use (1a) rather than (1-a) and (2a) rather than (2.a) for sub-equations. This should be consistent throughout the article.

C. Multi-line equations and alignment

Here we show several examples of multi-line equations and proper alignments.

A single equation that must break over multiple lines due to length with no specific alignment.

The first line of this example

The second line of this example

The third line of this example (2)

is coded as:

```
\begin{multline}
\text{The first line of this example}\\
\text{The second line of this example}\\
\text{The third line of this example}
\end{multline}
```

A single equation with multiple lines aligned at the = signs

$$a = c + d \quad (3)$$

$$b = e + f \quad (4)$$

is coded as:

```
\begin{align}
a &= c+d \\
b &= e+f
\end{align}
```

The align environment can align on multiple points as shown in the following example:

$$x = y \quad X = Y \quad a = bc \quad (5)$$

$$x' = y' \quad X' = Y' \quad a' = bz \quad (6)$$

is coded as:

```
\begin{align}
x &= y & X &= Y & a &= bc \\
x' &= y' & X' &= Y' & a' &= bz
\end{align}
```

D. Subnumbering

The amsmath package provides a subequations environment to facilitate subnumbering. An example:

$$f = g \quad (7a)$$

$$f' = g' \quad (7b)$$

$$\mathcal{L}f = \mathcal{L}g \quad (7c)$$

is coded as:

```
\begin{subequations}\label{eq:2}
\begin{align}
f&=g \label{eq:2A}\\
f'&=g' \label{eq:2B}\\
\mathcal{L}f &= \mathcal{L}g \label{eq:2c}
\end{align}
\end{subequations}
```

E. Matrices

There are several useful matrix environments that can save you some keystrokes. See the example coding below and the output.

A simple matrix:

$$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \quad (8)$$

is coded as:

```
\begin{equation}
\begin{matrix} 0 & 1 \\ 1 & 0 \end{matrix} \\
\end{equation}
```

A matrix with parenthesis

$$\begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix} \quad (9)$$

is coded as:

```
\begin{equation}
\begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix} \\
\end{equation}
```

A matrix with square brackets

$$\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix} \quad (10)$$

is coded as:

```
\begin{equation}
\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix} \\
\end{equation}
```

A matrix with curly braces

$$\begin{Bmatrix} 1 & 0 \\ 0 & -1 \end{Bmatrix} \quad (11)$$

is coded as:

```
\begin{equation}
\begin{Bmatrix} 1 & 0 \\ 0 & -1 \end{Bmatrix} \\
\end{equation}
```

A matrix with single verticals

$$\begin{vmatrix} a & b \\ c & d \end{vmatrix} \quad (12)$$

is coded as:

```
\begin{equation}
\begin{vmatrix} a & b \\ c & d \end{vmatrix} \\
\end{equation}
```

A matrix with double verticals

$$\left\| \begin{matrix} i & 0 \\ 0 & -i \end{matrix} \right\| \quad (13)$$

is coded as:

```
\begin{equation}
\begin{vmatrix} i & 0 \\ 0 & -i \end{vmatrix} \\
\end{equation}
```

F. Arrays

The array environment allows you some options for matrix-like equations. You will have to manually key the fences, but you'll have options for alignment of the columns and for setting horizontal and vertical rules. The argument to array controls alignment and placement of vertical rules.

A simple array

$$\left(\begin{array}{cccc} a+b+c & uv & x-y & 27 \\ a+b & u+v & z & 134 \end{array} \right) \quad (14)$$

is coded as:

```
\begin{equation}
\left(
\begin{array}{cccc}
a+b+c & uv & x-y & 27 \\
a+b & u+v & z & 134
\end{array}
\right) \\
\end{equation}
```

A slight variation on this to better align the numbers in the last column

$$\left(\begin{array}{cccc} a+b+c & uv & x-y & 27 \\ a+b & u+v & z & 134 \end{array} \right) \quad (15)$$

is coded as:

```
\begin{equation}
\left(
\begin{array}{cccc}
a+b+c & uv & x-y & 27 \\
a+b & u+v & z & 134
\end{array}
\right) \\
\end{equation}
```

An array with vertical and horizontal rules

$$\left(\begin{array}{c|c|c|c} a+b+c & uv & x-y & 27 \\ \hline a+b & u+v & z & 134 \end{array} \right) \quad (16)$$

is coded as:

```
\begin{equation}
\left(
\begin{array}{c|c|c|c}
a+b+c & uv & x-y & 27 \\
\hline
a+b & u+v & z & 134
\end{array}
\right) \\
\end{equation}
```

Note the argument now has the pipe “|” included to indicate the placement of the vertical rules.

G. Cases Structures

Many times we find cases coded using the wrong environment, i.e., `array`. Using the `cases` environment will save keystrokes (from not having to type the `\left\lbracket`) and automatically provide the correct column alignment.

$$z_m(t) = \begin{cases} 1, & \text{if } \beta_m(t) \\ 0, & \text{otherwise.} \end{cases}$$

is coded as follows:

```
\begin{equation*}
{z_m(t)} =
\begin{cases}
1, & \{\text{if}\} \backslash \{\beta_m(t)\}, \backslash \\
0, & \{\text{otherwise.}\}
\end{cases}
\end{cases}
\end{equation*}
```

Note that the “&” is used to mark the tabular alignment. This is important to get proper column alignment. Do not use `\quad` or other fixed spaces to try and align the columns. Also, note the use of the `\text` macro for text elements such as “if” and “otherwise”.

H. Function Formatting in Equations

In many cases there is an easy way to properly format most common functions. Use of the `\` in front of the function name will in most cases, provide the correct formatting. When this does not work, the following example provides a solution using the `\text` macro.

$$d_R^{KM} = \arg \min_{d_1^{KM}} \{d_1^{KM}, \dots, d_6^{KM}\}.$$

is coded as follows:

```
\begin{equation*}
d_{\{R\}}^{\{KM\}} = \underset{\{d_{\{1\}}^{\{KM\}}\}}
{\{\text{arg min}\} \backslash \{d_{\{1\}}^{\{KM\}},
\ldots, d_{\{6\}}^{\{KM\}}\}}.
\end{equation*}
```

I. Text Acronyms inside equations

This example shows where the acronym “MSE” is coded using `\text{}` to match how it appears in the text.

$$\text{MSE} = \frac{1}{n} \sum_{i=1}^n (Y_i - \hat{Y}_i)^2$$

```
\begin{equation*}
\text{MSE} = \frac{1}{n} \sum_{i=1}^n (Y_{\{i\}} - \hat{Y}_{\{i\}})^2
\end{equation*}
```

J. Obsolete Coding

Avoid the use of outdated environments, such as `eqnarray` and `$$` math delimiters, for display equations. The `$$` display math delimiters are left over from Plain^{TeX} and should not be used in L^AT_EX, ever. Poor vertical spacing will result.

K. Use Appropriate Delimiters for Display Equations

Some improper mathematical coding advice has been given in various YouTubeTM videos on how to write scholarly articles, so please follow these good examples:

For **single-line unnumbered display equations**, please use the following delimiters:

```
\[ . . . \] or
```

```
\begin{equation*} . . . \end{equation*}
```

Note that the `*` in the environment name turns off equation numbering.

For **multiline unnumbered display equations** that have alignment requirements, please use the following delimiters:

```
\begin{align*} . . . \end{align*}
```

For **single-line numbered display equations**, please use the following delimiters:

```
\begin{equation} . . . \end{equation}
```

For **multiline numbered display equations**, please use the following delimiters:

```
\begin{align} . . . \end{align}
```

XI. L^AT_EX PACKAGE SUGGESTIONS

Immediately after your documenttype declaration at the top of your L^AT_EX file is the place where you should declare any packages that are being used. The following packages were used in the production of this document.

```
\usepackage{amsmath,amsfonts}
\usepackage{algorithmic}
\usepackage{array}
\usepackage[caption=false,font=normalsize,
labelfont=sf,textfont=sf]{subfig}
\usepackage{textcomp}
\usepackage{stfloats}
\usepackage{url}
\usepackage{verbatim}
\usepackage{graphicx}
\usepackage{balance}
```

XII. ADDITIONAL ADVICE

Please use “soft” (e.g., `\eqref{Eq}`) or `(\ref{Eq})` cross references instead of “hard” references (e.g., (1)). That will make it possible to combine sections, add equations, or change the order of figures or citations without having to go through the file line by line.

Please note that the `{subequations}` environment in L^AT_EX will increment the main equation counter even when there are no equation numbers displayed. If you forget that, you might write an article in which the equation numbers skip from (17) to (20), causing the copy editors to wonder if you’ve discovered a new method of counting.

$\text{BIB}\LaTeX$ does not work by magic. It doesn't get the bibliographic data from thin air but from .bib files. If you use $\text{BIB}\LaTeX$ to produce a bibliography you must send the .bib files.

\LaTeX can't read your mind. If you assign the same label to a subsection and a table, you might find that Table I has been cross referenced as Table IV-B3.

\LaTeX does not have precognitive abilities. If you put a `\label` command before the command that updates the counter it's supposed to be using, the label will pick up the last counter to be cross referenced instead. In particular, a `\label` command should not go before the caption of a figure or a table.

Please do not use `\nonumber` or `\notag` inside the `{array}` environment. It will not stop equation numbers inside `{array}` (there won't be any anyway) and it might stop a wanted equation number in the surrounding equation.

XIII. A FINAL CHECKLIST

- 1) Make sure that your equations are numbered sequentially and there are no equation numbers missing or duplicated. Avoid hyphens and periods in your equation numbering. Stay with IEEE style, i.e., (1), (2), (3) or for sub-equations (1a), (1b). For equations in the appendix (A1), (A2), etc..
- 2) Are your equations properly formatted? Text, functions, alignment points in cases and arrays, etc.
- 3) Make sure all graphics are included.
- 4) Make sure your references are included either in your main \LaTeX file or a separate .bib file if calling the external file.

REFERENCES

- [1] *Mathematics into Type*, American Mathematical Society. Online available:
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