UDC number (style article\_text\_cont\_en)

The title of the article should be short (up to 10 words, if possible) (use style *article\_title\_en*)

Subtitle, if necessary - the title of the article should correspond to the essence of the scientific problem being solved, to point out the aim of the research, its completeness (*article\_subtitle\_en*)

F. M. Surname, scientific degree, academic title, OrcID number
e-mail corporate (desirble)/personal - author/s of the first affiliation (*article\_author\_en*)

Name of the organization department (URL at will) (*article\_affilation\_en*)

Name of the organization (URL at will)

City, Country

F. M. Surname, scientific degree, academic title, OrcID number
e-mail corporate (desirble)/personal - author/s of the first affiliation (*article\_author\_en*)

Name of the organization department (URL at will) (*article\_affilation\_en*)

Name of the organization (URL at will)

City, Country

*Abstract*—This electronic document is a "live" template and already defines the components of your article [title, text, sections, etc.] in your style. \* IMPORTANT: do not use symbols, special symbols or math in the title or annotation. (*article\_abstract\_en*)

Requirements: Volume from 2500 to 3500 characters; Informative (do not contain common words); Content (reflect the main points of the article and the results of the research) Structuredness (follow the logic of describing the results in the article)

Keywords - components; Formatting; style; template (article\_key words\_en)

Requirements: no more than 10 keywords/phrases, nominative case, absence of abbreviations (which apply only in the article).

Introduction (article\_heading1\_en)

This template is created in compliance with all requirements for the design of the article: styles of individual fragments, page margins, indents, multi-level numbering, drawing and table signatures, format of formulas. Authors only need to use styles whose names are indicated in italics in parentheses (*article\_text\_en*).

Requirements to the structure of the article and its parts

The article should explicitly contain: Introduction, Analysis of literary data and the statement of the problem, The purpose and objectives of the study, The main part (contains the presentation of the research material with full justification of the results obtained, the text should be divided into sections with titles) and Conclusions. The names of the sections can be different — the main thing is to reveal these questions.

Abbreviations and Acronyms (article\_heading2\_en)

Define abbreviations and acronyms when they are first used in the text (even if they were defined in the annotation). Such abbreviations as IEEE, ISO, ITU, DSTU, GOST, etc. do not require an explanation. Do not use abbreviations in the title of the article and the title of the sections — only if it is unavoidable.

Units

Use SI units. The English system of measures is allowed to use only as a registered identifier, for example, "3.5 inch floppy disk". (*article\_mark\_en*)

Do not mix the full name of the unit and the abridged version, for example, "Wb/m2" or "Weber per square meter", but never "Weber/m2".

Use zero in decimal values: "0,25" instead of ", 25". Use "cm3" for "cc".

Equations

The formatting of the equations falls out of this template, so you will have to carry out all the settings yourself.

Requirements:

Formulas must be typed in the formula editor MicrosoftEquation 3.0 and higher or MathType 4.0 Equation and higher.

Formulas should not be more than 7 cm in width (in some cases it is allowed to use formulas for the entire width of the sheet).

Formulas referenced in the text must be numbered. The number is written not in the formula, but outside it and is separated by one tab character.

The link to the formula in the text is , (2-4) and, if possible, presented as hyperlinks (built-in MS WORD or MathType capabilities).

Align the numbering to the right.

The formula is part of the text; therefore, after the formula, there should be a semantic sign: if a further sentence goes on, then the point; If there is further clarification, then a comma.

Latin letters used in indices are typed in italics, if they are letters of the designations of quantities or serial number, in other cases - in direct type.

The letters of the Ukrainian, Russian and Greek alphabets, as well as the numbers used in the indices, are typed in direct type.

Parentheses in formulas and equations should, first of all, use round () then square [] and curly {}. It is permitted to use the parentheses several times in the same formula.

Designations of units of physical quantities should be carried out in a direct font and placed in one line with their numerical values.

Between the last digit and the unit designation, leave a space (except for the designations of units of a flat angle - angular degrees, minutes, seconds).

In numbers with decimals, the integer part of the decimal number is separated by a comma, not a dot.

The explanation of the meaning of the symbols and the numerical coefficients entering into the formula or equation should be given directly under the formula in the sequence in which they are presented in the formula or equation.

All chemical formulas are written in the letters of the Latin alphabet and are given in the text in direct type. Formulas of chemical quantities are placed in the text after their names, rather than separating them with commas or brackets.

When typing formulas, you need to set the following parameters in the formula editor:

font:

Text, functions and numbers are typed in Times New Roman font;

Variables - italic Times New Roman;

Matrix-vector - bold Times New Roman;

Greek letters and symbols - Symbol font.

Size (size):

The usual symbol is 10 pt;

Large index - 8 pt;

Small index - 7 pt;

Large character -15 pt;

Small character - 10 pt.

The figures, the letters of the Greek and Gothic alphabets, which enter into mathematical formulas and equations, are typed in direct type. Letters of the Latin alphabet are typed in italics.

The standard letters of mathematical functions and abbreviations, physical quantities, for example, cos, max, const, det, exp, are typed in a straight font of the Latin alphabet.

Not recommended:

Use both subscript and superscript indices (except for chemical formulas);

Use as indexes more than three letters and numbers.

Examples of formulas:



(*article\_equat*)

 

(*article\_equat\_num*)



(*article\_equat*)

 

(*article\_equat\_num\_big*)

Figures and Tables

Arrange tables and drawings at the beginning or end of the column. Do not allow their location in the center of the column. (*article\_enum\_en*)

Large tables and drawings can occupy the width of two columns.

The name of the drawing should be located at the bottom, and the tables at the top. It is advisable to name the built-in WORD functions. The reference to Table 1 and Fig. 1 will be presented as hyperlinks. It is only necessary to independently set the size of the letters in the links "As in the sentence".

The table header should not contain empty cells.

If the document is broken into several pages in the document, you do not need to re-sign the new page!

All tables should be located vertically.

Line boundaries of the table, as well as the thickness of the lines in the drawings should be at least 1 pt.

TABLE 1 Table styles

|  |  |
| --- | --- |
| Table header | Table header |
| Subtitle of a column | Subtitle of a column | Subtitle of a column |
| Data | Data |  |  |

a. Example of a subtable label (*article\_tabl\_footnote\_en*)

b. more explanation

Fig. 1 Example of the name of the figure (article\_fig\_en)

We recommend using a text field to insert pictures - because this method is more stable than simply inserting a picture into text.

It is desirable to have drawings in TIFF or EPS formats with embedded fonts, resolution 300 dpi.

To ensure that the frame is not visible, in the properties, select Borders - without color and without filling.

For the inscriptions in the drawings, use 8pt Times New Roman. In the signatures, use the words along with the letters, for greater understanding by the reader, for example: "Amplitude" or "Amplitude, A", but not separately "A". If units are used. Then they should be written in parentheses: "Length (m)".

Using the template

Preparation of the article

Before formatting your presentation, write and save the article as a separate document. Keep the text portion and drawings separately to formatting. Do not use "hard" breaks in paragraphs to move rows - only at the end of the paragraph. Do not add any page numbering to the text. Do not add the numbering of sections yourself - the template will do it for you.

Finish the article and edit before formatting. Also, first check the grammar and spelling.

Most common errors

The word "data" has a multiple meaning, and not one.

The subscript index of the vacuum  permeability and other known scientific constants is "zero", and not the small letter "o".

Check whether all used in the formulas the indices are described after the formula (if they were not previously defined).

The results presented in the figures should be well described in the article. If the figure does not relate to the results obtained and is given in the scientific literature - it is better to simply use a reference to it.

Authors and Affiliations

The template is built in such a way as not to repeat one affiliation for several authors. Please form the affiliations as concisely as possible, for example, do not make the difference between departments of the same organization.

You can add and remove extra fields for the affiliations in this template.

Identifying the Headings

Headers are the tool of the organizations of your article, which helps to guide the reader through your paper. There are two types of headings: structural and text.

Structural headings distinguish the various components of the article and, as a rule, are independent. For example, Acknowledgment and References, use the style *article\_stucture\_en* for them. For Figures names, use *article\_fig\_en*, and for Table names - *article\_table\_header\_en*. For a streaming section header, such as "Abstract", it is necessary to apply "italics" in addition to the style.

Text headers are used to build a hierarchy and links between different pieces of text. If two subthemes are highlighted in the article, you should use the Roman numbering to separate them (*article\_heading1\_en*). Inside the sub-topic, the numbering of sections in large Latin letters is used (*article\_heading2\_en* style). Division into lower levels is undesirable.

If there are at least two sub-themes in the article - then subdivisions (*article\_heading2\_en*) are not used.

Acknowledgment (article\_stucture\_en)

The preferred spelling of the word “acknowledgment” in America is without an “e” after the “g.” Avoid the stilted expression “one of us (R. B. G.) thanks ...”. Instead, try “R. B. G. thanks...”.

References

The text of the work should contain references in accordance with the requirements of the IEEE standard, in the form [1], where "1" is the number of the literature in the final list. Refer simply to the reference number, as in [3]—do not use “Ref. [3]” or “reference [3]” except at the beginning of a sentence: “Reference [3] was the first ...”.

It is desirable to use the built-in WORD tool for citing literature: References - References and references. This tool will allow you to correctly format the references to the IEEE standard and avoid problems with the correspondence of the number to the citation and the ordinal number of the source in the list of references. References to the literature in this template are inserted precisely because of this tool, as a result [2] and [3] look like hyperlinks inside the document. Such a mechanism allows the reader to quickly and conveniently navigate the article.

If the source has an electronic version with DOI, its presence is mandatory! Otherwise, the full URL of the electronic version is indicated.

For books, you must specify their ISBN (if available).

There should be at least 10 sources.

In the list of references it is desirable not less than 6 references to foreign sources. The list is formatted with the *article\_references* style.

For publications that are not published, you must add "unpublished"; For articles accepted for publication – "in print."

The use of GOSTs and national standards is inadmissible in the list of references.

The percentage of self-citation is no more than 30% (ie if you used 10 links, of which there may be no more than 3 for your work or for publication in our journal).

References sample

|  |  |
| --- | --- |
| [1]  | T. A. Saurova, «Metodika rascheta osnovnyih harakteristik avtofaznoy mnogoluchevoy LBV s peremennoy fazovoy skorostyu [Methods of calculating the basic characteristics of self-phasing multi-beam TWT with variable phase velocity],» в *V-i Vseukrainskaia naukovo-praktychnoi konferentsiia studentiv, aspirantiv ta molodykh vchenykh*, Kyiv, 2016.  |
| [2]  | Beliavskiy, Ye. D.; Saurova, T. A., «Optimizatsiya preobrazovaniya energii v mnogoluchevoy avtofaznoy lampe beguschey volnyi [Optimization of energy transformation in the multi-ray auto-phase traveling-wave tube],» *Tekhnika i Pribory SVCh,* № 1, pp. 3-7, 2010.  |
| [3]  | T. A. Saurova, "Research of characteristics of self-phasing multi-beam traveling-wave tube with variable phase velocity," *Radioelectronics and Communications Systems,* vol. 7, no. 56, pp. 365-369, 2013, **DOI:** [10.3103/S0735272713070054](https://doi.org/10.3103/S0735272713070054).  |

УДК номер (стиль article\_text\_cont\_ua)

Назва статті має бути короткою (по можливості до 10 слів) (використовуйте стиль ***article\_title\_ua***)

Підзаголовок, за потреби – назва статті має відповідати суті розв'язуваної наукової проблеми, вказувати на мету дослідження, його завершеність (article\_subtitle\_ua)

Прізвище І. П., науковий ступінь, вчене звання, OrcID номер
e-mail корпоративний(бажано)/особистий – автор/и першої афіляції (***article\_author\_ua***)

Назва відділу організації (URL за бажанням) (***article\_affilation\_ua***)

Назва організації (URL за бажанням)

Місто, Країна

Прізвище І. П., науковий ступінь, вчене звання, OrcID номер
e-mail корпоративний(бажано)/особистий – автор/и другої афіляції (***article\_author\_ua***)

Назва відділу організації (URL за бажанням) (***article\_affilation\_ua***)

Назва організації (URL за бажанням)

Місто, Країна

*Реферат*—Цей електронний документ є "живим" шаблоном і вже визначає компоненти Вашої статті [заголовок, текст, розділи тощо] у своєму стилі. \* ВАЖЛИВО: не використовуйте символи, спеціальні символи або математику в заголовку чи анотації. (*article\_abstract\_ua*)

Вимоги: Обсяг від 500 до 1000 знаків; Інформативність (не містити загальних слів); Змістовність (відображати основні положення статті та результати досліджень); Структурованість (слідувати логікі опису результатів в статті)

Ключові слова — складові; форматування; стиль; шаблон (article\_key words\_ua)

Вимоги: не більше 10 ключових слів/словосполучень, називний відмінник, відсутність скорочень (які застосовуються лише в статті).

УДК номер (стиль *article\_text\_cont\_ru*)

Название статьи должно быть кратким (по возможности до 10 слов) (используйте стиль *article\_title\_ru*)

Подзаголовок, при необходимости - название статьи должно соответствовать сути решаемой научной проблемы, указывать на цель исследования, его завершенность (*article\_subtitle\_ru*)

Фамилия И. О., ученая степень, ученое звание, OrcID номер
e-mail корпоративный (желательно)/личный – автор/ы первой афиляции (*article\_author\_ru*)

Название отдела организации (URL по желанию) (*article\_affilation\_ru*)

Название организации (URL по желанию)

Город, Страна

Фамилия И. О., ученая степень, ученое звание, OrcID номер
e-mail корпоративный (желательно)/личный – автор/ы второй афиляции (*article\_author\_ru*)

Название отдела организации (URL по желанию) (*article\_affilation\_ru*)

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Город, Страна

*Реферат*—Этот электронный документ является "живым" шаблоном и уже определяет компоненты Вашей статьи [заголовок, текст, разделы и т.д.] в своем стиле. \* ВАЖНО: не используйте символы, специальные символы или математику в заголовке или аннотации. (*article\_abstract\_ru*)

Требования: Объем от 500 до 1000 знаков; Информативность (не содержать общих слов); Содержательность (отражать основные положения статьи и результаты исследований) Структурированность (следовать логик описания результатов в статье)

Ключевые слова - составляющие; форматирования; стиль; шаблон (article\_key words\_ru)

Требования: не более 10 ключевых слов/словосочетаний, именительный падеж, отсутствие сокращений (которые применяются только в статье).