LaTeX 2_ε DOCUMENT CLASS FOR ACTA PHYSICA POLONICA B*

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Basic parameters, such as the page layout and the font size, used by *Acta Physica Polonica B* are defined. This class is very similar to article.cls.

1. Introduction

The LaTeX 2_ε document class `appolb.cls` should be used by starting the file with

```
\documentclass{appolb}
```

Our main goal is to let the authors see how the text and equations fit to our page layout — the text column size is 126 mm × 190 mm. The style is very similar to the original Latex `article`, *i.e.* most of the commands are used in the same way although some of them result in a different text formatting. There are also some new commands, which are described below.

2. Options

Optional parameters to the `appolb` class can be given, as usually, in square brackets, *e.g.*

```
\documentclass[letterpaper,draft]{appolb}
```

Default options are: `a4paper,final`.

Available options:

`draft` or `final` — show or hide the overfull rule

`letterpaper` or `a4paper` — select paper size

* Send any remarks to `acta@jetta.if.uj.edu.pl`

3. Commands

`\eqsec`
Call this macro before the first `\section` command if you want equations numbered as (SectionNumber.EqNumber). You can uncomment line 15 of this file (`appbdoc.tex`) to see the effect.

3.1. Shortcuts

`\ie` gives: *i.e.*
`\eg` gives: *e.g.*
`\cf` gives: *cf.*
The macros provide appropriate spacing without the need for any curly braces {}.

3.2. Math mode operators

`\Tr` gives: Tr
`\e` gives: e — straight 'e' in math mode.

3.3. `eqletters` *environment*

Enumarate equations with a number and a lower-case letter, *e.g.*

$$A_1 \;=\; F(1)\,, \tag{1a}$$
$$A_2 \;=\; F(2)\,. \tag{1b}$$

As long as the `eqletters` environment is active all equations are numbered with letters, *e.g.*

$$L = \frac{1}{2}a = \tfrac{1}{2}A \tag{1c}$$

Equations (1a) and (1b) can be referenced as Eqs. (1). The `\label` statement used to generate the latter reference must be placed outside any `eqnarray` or `equation` environment.