

# Hello L<sup>A</sup>T<sub>E</sub>X World

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## Abstract

This document is a model and instructions for L<sup>A</sup>T<sub>E</sub>X ‘article’ class.

## 1 Introduction

Welcome to the L<sup>A</sup>T<sub>E</sub>X world.

## 2 Ease of Use

### 2.1 Maintaining the Integrity of the Specifications

The ‘article’ class is used to format your paper and style the text. All margins, column widths, line spaces, and text fonts are prescribed.

## 3 Styling Guide

### 3.1 Abbreviations and Acronyms

Define abbreviations and acronyms the first time they are used in the text, even after they have been defined in the abstract.

### 3.2 Equations

$$\sum_{n=0}^{\infty} \frac{af^n}{n!} (x-a)^n \tag{1}$$

(1) is the famous Taylor series. Use “(1)”, not “Eq. (1)” or “equation (1)”, except at the beginning of a sentence: “Equation (1) is . . .”

Taylor series in a text would be  $\sum_{n=0}^{\infty} \frac{af^n}{n!} (x-a)^n$

### 3.3 Lists

Bullet style list.

- item 1
- item 2
- item 3

Number style list.

1. item 1
2. item 2
3. item 3

### 3.4 Figures and Tables

**Positioning Figures and Tables** Figure captions should be below the figures; table heads should appear above the tables. Insert figures and tables after they are cited in the text. Use the abbreviation “Fig. 1”.

Table 1: Table Type Styles

Table Head	Table Column Head		
	<i>Table column subhead</i>	Subhead	<i>Subhead</i>



Figure 1: Working example

### 3.5 Algorithms

```
 $i \leftarrow 10$   
if  $i \geq 5$  then  
     $i \leftarrow i - 1$   
else  
    if  $i \leq 3$  then  
         $i \leftarrow i + 2$   
    end if  
end if
```

### 3.6 Source codes

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World");  
    }  
}
```

### 3.7 References

Please number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2]. Refer simply to the reference number, as in [3]—do not use “Ref. [3]” or “reference [3]” except at the beginning of a sentence.

## References

- [1] G. Eason, B. Noble, and I. N. Sneddon, “On certain integrals of Lipschitz-Hankel type involving products of Bessel functions,” *Phil. Trans. Roy. Soc. London*, vol. A247, pp. 529–551, April 1955.
- [2] J. Clerk Maxwell, *A Treatise on Electricity and Magnetism*, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68–73.
- [3] I. S. Jacobs and C. P. Bean, “Fine particles, thin films and exchange anisotropy,” in *Magnetism*, vol. III, G. T. Rado and H. Suhl, Eds. New York: Academic, 1963, pp. 271–350