

# 武汉大学樱花

LATEX模板

Lai Wei



武汉大学  
WUHAN UNIVERSITY



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*First printing, March 2025*

献给我自己和亲爱的武汉大学。





## 前言

作者本人于2024年从江西省参加高考，有幸被武汉大学录取。我从高中开始接触 $\text{\LaTeX}$ ，被其专业的排版风格所吸引。

2025春季学期，我总结上学期期末考试的经验教训，这学期决定采用 $\text{\LaTeX}$ 记笔记巩固学习成果。

我最开始使用Latex Homework Template 记录错题，后由于许多老师授课风格偏快，决定课下将课上尚未完善的笔记使用 $\text{\LaTeX}$ 整理。前几日我发现了Legrand Orange Book 模板，令我十分欣喜。所以我简单地换了几个图片，更改了主题颜色，添加了几个newcommand，形成了这套武大樱花 $\text{\LaTeX}$ 模板。

L. WEI

March 1, 2025

记于武大工主教





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# 1. 章节说明

## 1.1 Section Title

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### 1.1.1 Subsection Title

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#### 1.1.1.1 Subsubsection Title

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## Unnumbered Section

### Unnumbered Subsection

#### Unnumbered Subsubsection



## 2. In-text Element Examples

### 2.1 Referencing Publications

This statement requires citation [1]; this one is more specific [2, page 162].

### 2.2 Link Examples

This is a URL link: [LaTeX Templates](#). This is an email link: [example@example.com](mailto:example@example.com). This is a monospaced URL link: `https://www.LaTeXTemplates.com`.

### 2.3 Lists

Lists are useful to present information in a concise and/or ordered way.

#### 2.3.1 Numbered List

1. First numbered item
  - a. First indented numbered item
  - b. Second indented numbered item
    - i. First second-level indented numbered item
2. Second numbered item
3. Third numbered item

#### 2.3.2 Bullet Point List

- First bullet point item
  - First indented bullet point item
  - Second indented bullet point item
    - First second-level indented bullet point item
- Second bullet point item

- Third bullet point item

### 2.3.3 Descriptions and Definitions

**Name** Description

**Word** Definition

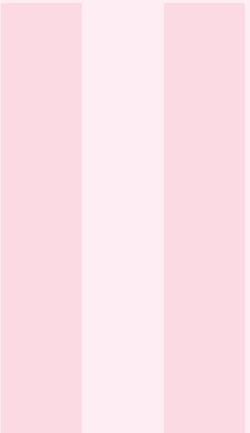
**Comment** Elaboration

## 2.4 International Support

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## 2.5 Ligatures

fi fj fl ffl ffi Ty



# Part Two Title

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## 3. Mathematics

### 3.1 Theorems

#### 3.1.1 Several equations

This is a theorem consisting of several equations.

**Theorem 3.1 — Name of the theorem.** In  $E = \mathbb{R}^n$  all norms are equivalent. It has the properties:

$$\| |\mathbf{x}| - |\mathbf{y}| \| \leq \| \mathbf{x} - \mathbf{y} \| \quad (3.1)$$

$$\left\| \sum_{i=1}^n \mathbf{x}_i \right\| \leq \sum_{i=1}^n \| \mathbf{x}_i \| \quad \text{where } n \text{ is a finite integer} \quad (3.2)$$

#### 3.1.2 Single Line

This is a theorem consisting of just one line.

**Theorem 3.2** A set  $\mathcal{D}(G)$  is dense in  $L^2(G)$ ,  $|\cdot|_0$ .

### 3.2 Definitions

A definition can be mathematical or it could define a concept.

**Definition 3.1 — Definition name.** Given a vector space  $E$ , a norm on  $E$  is an application, denoted  $\| \cdot \|$ ,  $E$  in  $\mathbb{R}^+ = [0, +\infty[$  such that:

$$\| \mathbf{x} \| = 0 \Rightarrow \mathbf{x} = \mathbf{0} \quad (3.3)$$

$$\| \lambda \mathbf{x} \| = |\lambda| \cdot \| \mathbf{x} \| \quad (3.4)$$

$$\| \mathbf{x} + \mathbf{y} \| \leq \| \mathbf{x} \| + \| \mathbf{y} \| \quad (3.5)$$

### 3.3 Notations

■ **Notation 3.1** Given an open subset  $G$  of  $\mathbb{R}^n$ , the set of functions  $\varphi$  are:

1. Bounded support  $G$ ;
2. Infinitely differentiable;

a vector space is denoted by  $\mathcal{D}(G)$ .

### 3.4 Remarks

This is an example of a remark.



The concepts presented here are now in conventional employment in mathematics. Vector spaces are taken over the field  $\mathbb{K} = \mathbb{R}$ , however, established properties are easily extended to  $\mathbb{K} = \mathbb{C}$ .

### 3.5 Corollaries

**Corollary 3.1 — Corollary name.** The concepts presented here are now in conventional employment in mathematics. Vector spaces are taken over the field  $\mathbb{K} = \mathbb{R}$ , however, established properties are easily extended to  $\mathbb{K} = \mathbb{C}$ .

### 3.6 Propositions

#### 3.6.1 Several equations

**Proposition 3.1 — Proposition name.** It has the properties:

$$|||\mathbf{x}|| - ||\mathbf{y}||| \leq ||\mathbf{x} - \mathbf{y}|| \quad (3.6)$$

$$||\sum_{i=1}^n \mathbf{x}_i|| \leq \sum_{i=1}^n ||\mathbf{x}_i|| \quad \text{where } n \text{ is a finite integer} \quad (3.7)$$

#### 3.6.2 Single Line

**Proposition 3.2** Let  $f, g \in L^2(G)$ ; if  $\forall \varphi \in \mathcal{D}(G)$ ,  $(f, \varphi)_0 = (g, \varphi)_0$  then  $f = g$ .

### 3.7 Examples

#### 3.7.1 Equation Example

■ **Example 3.1** Let  $G = \{x \in \mathbb{R}^2 : |x| < 3\}$  and denoted by:  $x^0 = (1, 1)$ ; consider the function:

$$f(x) = \begin{cases} e^{|x|} & \text{si } |x - x^0| \leq 1/2 \\ 0 & \text{si } |x - x^0| > 1/2 \end{cases} \quad (3.8)$$

The function  $f$  has bounded support, we can take  $A = \{x \in \mathbb{R}^2 : |x - x^0| \leq 1/2 + \varepsilon\}$  for all  $\varepsilon \in ]0; 5/2 - \sqrt{2}[$ . ■

### 3.7.2 Text Example

■ **Example 3.2 — Example name.** Aliquam arcu turpis, ultrices sed luctus ac, vehicula id metus. Morbi eu feugiat velit, et tempus augue. Proin ac mattis tortor. Donec tincidunt, ante rhoncus luctus semper, arcu lorem lobortis justo, nec convallis ante quam quis lectus. Aenean tincidunt sodales massa, et hendrerit tellus mattis ac. Sed non pretium nibh. Donec cursus maximus luctus. Vivamus lobortis eros et massa porta porttitor. ■

## 3.8 Exercises

**Exercise 3.1** This is a good place to ask a question to test learning progress or further cement ideas into students' minds. ■

## 3.9 Problems

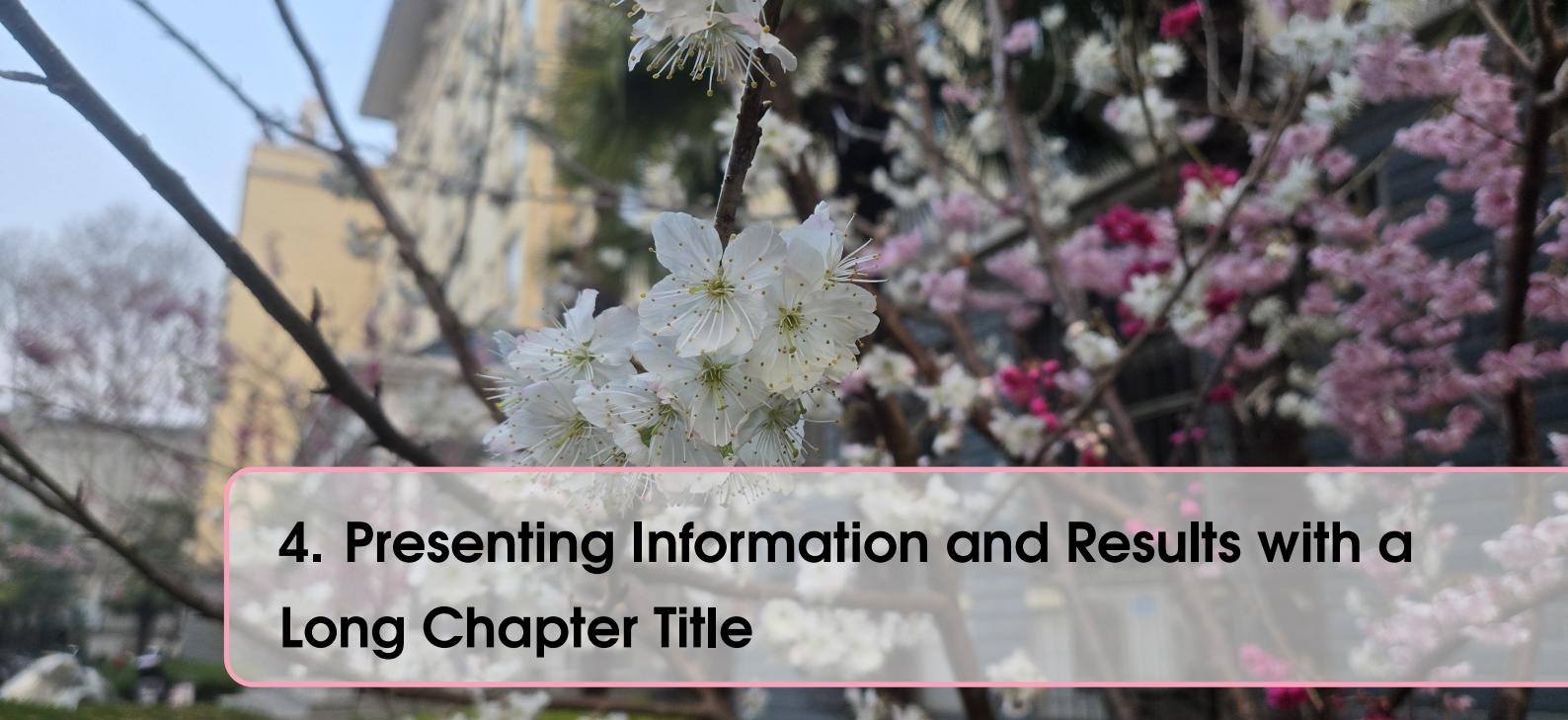
**Problem 3.1** What is the average airspeed velocity of an unladen swallow?

## 3.10 Vocabulary

Define a word to improve a students' vocabulary.

■ **Vocabulary 3.1 — Word.** Definition of word.





## 4. Presenting Information and Results with a Long Chapter Title

### 4.1 Table

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Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

表 4.1: Table caption.

Referencing Table 4.1 in-text using its label.

### 4.2 Figure

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Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

表 4.2: Floating table.



图 4.1: Figure caption.

# Bibliography

## Articles

- [1] A. B. Jones and J. M. Smith. “Article Title”. In: *Journal title* 13.52 (Mar. 2022), pages 123–456. DOI: [10.1038/s41586-021-03616-x](https://doi.org/10.1038/s41586-021-03616-x) (cited on page 17).

## Books

- [2] J. M. Smith and A. B. Jones. *Book Title*. 7th. Publisher, 2021 (cited on page 17).



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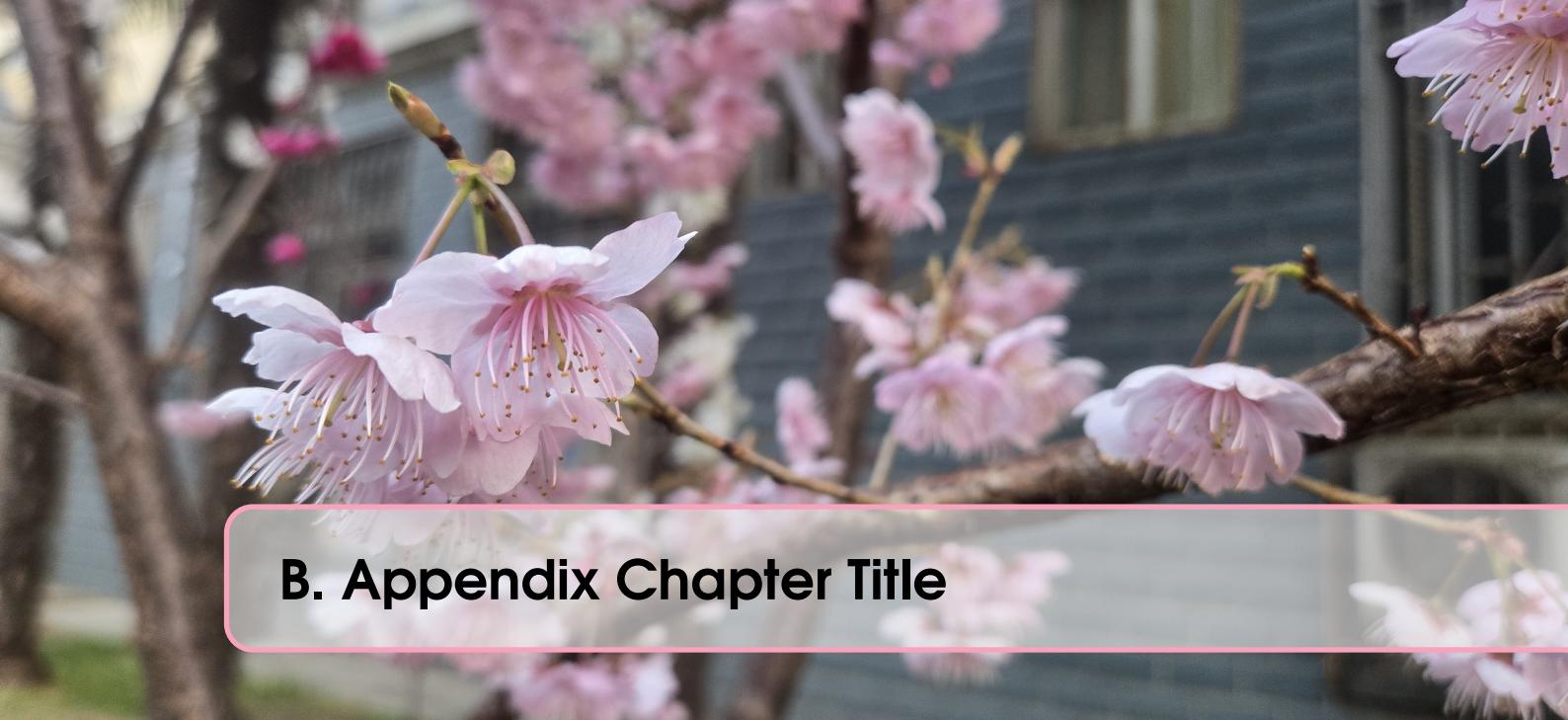


## A. Appendix Chapter Title

### A.1 Appendix Section Title

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## B. Appendix Chapter Title

### B.1 Appendix Section Title

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