



Primeira edição

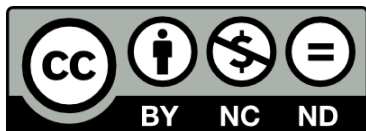
Título do livro
Subtítulo do livro

Fernando Pujaico Rivera

Lavras/MG

2020

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Amicum lege feliciter, vivas, gaudeas, floreas in Deo.

Fernando

Agradecimentos

Dou muitas graças a Deus

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Fernando Pujaico Rivera

Prólogo

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Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Sumário

| | |
|--|---------------|
| Prólogo | 9 |
| Listas de dados | 13 |
| Lista de definições | 13 |
| Lista de teoremas | 13 |
| Lista de notações | 13 |
| Lista de exemplos | 13 |
| Lista de exercícios | 13 |
| Lista de informações | 14 |
| Lista de elaborações | 14 |
| Lista de frases | 14 |
| I Sample of text | 15 |
| 1 Text Chapter: Full Connected Neural Network | 17 |
| 1.1 Paragraphs of Text | 17 |
| 1.2 Citation | 18 |
| 1.3 Lists | 18 |
| 1.3.1 Numbered List | 18 |
| 1.3.2 Bullet Points | 19 |
| 1.3.3 Descriptions and Definitions | 19 |
| II Enviroments | 21 |
| 2 In-text Elements | 23 |
| 2.1 Boxs | 23 |
| 2.1.1 Theorems | 23 |
| 2.1.2 Exercises | 24 |
| 2.2 Examples | 24 |
| 2.3 Definitions | 25 |
| 2.4 Notations | 27 |
| 2.5 Equationbox | 28 |
| 2.6 Phrasebox | 28 |
| 2.7 Attentionbox | 29 |

| | | |
|------------|--------------------------------|-----------|
| 2.8 | Informationbox | 29 |
| 2.9 | Elaborationbox | 29 |
| 2.10 | Bulletjournalround | 29 |
| 2.11 | Notebox | 30 |
| 3 | Presenting Information | 31 |
| 3.1 | Table | 31 |
| 3.2 | Figure | 32 |
| III | Macros | 33 |
| 4 | Macros | 35 |
| 4.1 | File math-macros.tex | 35 |
| IV | Referencias | 39 |
| | Bibliografia | 41 |
| | Índice | 43 |

Listas de dados

Listas de definições

| | | |
|-------|-----------------------|----|
| 2.3.1 | Definition name | 25 |
|-------|-----------------------|----|

Listas de teoremas

| | | |
|-------|---------------------------|----|
| 2.1.1 | Name of the theorem | 23 |
| 2.1.2 | Teorema | 24 |
| 2.2.1 | Teorema | 25 |
| 2.2.2 | Teorema | 25 |
| 2.3.1 | Theorem name | 26 |

Listas de notações

| | | |
|--------|--------------------------------------|----|
| 2.4.1 | notation | 27 |
| 2.4.2 | Notation name title very large | 27 |
| 2.4.3 | notation | 28 |
| 2.4.4 | Notation title | 28 |
| 2.10.1 | Notation name title very large | 30 |

Listas de exemplos

| | | |
|-------|--------------------|----|
| 2.2.1 | Example name | 25 |
|-------|--------------------|----|

Listas de exercícios

| | | |
|-------|------------------------|----|
| 2.1.1 | Exercise name | 24 |
| 2.1.2 | Exercise name A0 | 24 |

| | | |
|-------|-----------------------|----|
| 2.3.1 | Exercise name A | 26 |
| 2.3.2 | Exercise name | 26 |
| 2.3.3 | Exercise name B | 27 |

Lista de informações

| | | |
|-------|----------------|----|
| 1.1.1 | Título A | 17 |
| 1.2.1 | Título B | 18 |
| 2.8.1 | Título A | 29 |

Lista de elaborações

| | | |
|-------|-------------------------------|----|
| 1.2.1 | Título C | 18 |
| 2.9.1 | Title of elaborationbox | 29 |

Lista de frases

| | | |
|-----|---------------------|----|
| 1.1 | Frase title A | 17 |
| 1.2 | Frase title B | 17 |
| 2.1 | Frase title | 28 |

PARTE



Sample of text

Text Chapter: Full Connected Neural Network

1.1 Paragraphs of Text

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.



Título A: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Text

Frase 1.1: Frase title A

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Autor

Frase 1.2: Frase title B

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Autor

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

1.2 Citation

This statement requires citation [Smi12]; this one is more specific [Smi13, página 122].

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.



Título B: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.^a

^aSimple footnote example.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Título C

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

1.3 Lists

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.¹.

1.3.1 Numbered List

1. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
2. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
3. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

¹Footnote example...

1.3.2 Bullet Points

- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

1.3.3 Descriptions and Definitions

Name Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

Word Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

Comment Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

PARTE



Enviroments

In-text Elements

2.1 Boxes

This is an example of theorems. Theorema 2.1.1, 2.1.2, 2.2.1, 2.2.2 e 2.3.1.

2.1.1 Theorems

```
\begin{theorem}[Name of the theorem]
\label{theo:A}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{theorem}
```

**Teorema
2.1.1**

Name of the theorem

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.1)$$

```
\begin{proof}[Relative to Teorema \ref{theo:A}]
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{proof}
```

Prova 2.1.1 (Relative to Teorema 2.1.1). *Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.*

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.2)$$

2.1.2 Exercises

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{exercise}[Exercise name]
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name

Exercício 2.1.1: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.3)$$

```
\begin{exercise}[Exercise name A0]
\label{ex:A0}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name A0

Exercício 2.1.2: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.4)$$

```
\begin{theorem}
\label{theo:B}
\lipsum[1][1-3]
\end{theorem}
```

Teorema 2.1.2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.2 Examples

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. See Example 2.1.2


```
\begin{example}[Example name]
\label{ex:A0:b}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{example}
```

Exemplo 2.2.1 — Example name: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.5)$$

```
\begin{theorem}
\label{theo:C}
\lipsum[1][1-3]
\end{theorem}
```

Teorema 2.2.1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{theorem}
\label{theo:D}
\lipsum[1][1-3]
\end{theorem}
```

Teorema 2.2.2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.3 Definitions

Definition 2.3.1,

```
\begin{definition}[Definition name]
\label{def:A0}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{definition}
```

Definição 2.3.1 — Definition name: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.6)$$

```
\begin{theorem}[Theorem name]
\label{theo:E}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{theorem}
```

Teorema 2.3.1

Theorem name

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.7)$$

```
\begin{exercise}[Exercise name A]
\label{exer:A}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name A

Exercício 2.3.1: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.8)$$

```
\begin{exercise}[Exercise name]
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name

Exercício 2.3.2: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.9)$$

```
\begin{exercise}[Exercise name B]
\label{exer:B}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name B

Exercício 2.3.3: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.10)$$

Exer 2.1.2, 2.3.1 e 2.3.3.

2.4 Notations

Notations 2.4.1, 2.4.2, 2.4.3 e 2.4.4.

```
\begin{notation}
\label{not:A}
\lipsum[1][1-3]
\begin{equation}
x^2 + e^{-\frac{x^2}{2}} = 1
\end{equation}
\end{notation}
```

Notação 2.4.1: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.11)$$

```
\begin{notation}[Notation name title very large]
\label{not:B}
\lipsum[1][1-3]
\begin{equation}
x^2 + e^{-\frac{x^2}{2}} = 1
\end{equation}
\end{notation}
```

Notation name title very large

Notação 2.4.2: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.12)$$

```
\begin{notation}
\label{not:C}
\lipsum[1][1-3]
\begin{equation}
x^2 + e^{-\frac{x^2}{2}} = 1
\end{equation}
\end{notation}
```

Notação 2.4.3: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.13)$$

```
\begin{notation}[Notation title]
\label{not:D}
\lipsum[1][1-3]
\end{notation}
```

Notation title

Notação 2.4.4: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.5 Equationbox

```
\begin{equationbox}
\begin{equation}
x^2 + e^{-\frac{x^2}{2}} = 1
\end{equation}
\end{equationbox}
```

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.14)$$

2.6 Phrasebox

```
\begin{phrasebox}{Frase title}{Fernando P. R.}
\lipsum[1][1-3]
\end{phrasebox}
```

Frase 2.1: Frase title

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Fernando P. R.

2.7 Attentionbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{attentionbox}
\lipsum[1][1-3]
\end{attentionbox}
```



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.8 Informationbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{informationbox}[Título A]
\lipsum[1][1-3]
\end{informationbox}
```



Título A: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.9 Elaborationbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{elaborationbox}[Title of elaborationbox]
\lipsum[1][1-3]
\end{elaborationbox}
```

Title of elaborationbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.10 Bulletjournalround

```
\begin{bulletjournalround}[colorNotation]
\tcbitem First line of text.
\tcbitem Second line of text.
\end{bulletjournalround}
```

1 First line of text.

2 Second line of text.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{enumerate}
\item First line of text.
\item Second line of text.
\end{enumerate}
```

1. First line of text.

2. Second line of text.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{notation}[Notation name title very large]
Text before bulletjournalround enviroment.
\begin{bulletjournalround}[colorNotation]
\tcbitem First line of text.
\tcbitem Second line of text.
\end{bulletjournalround}
Text out of bulletjournalround enviroment.
\end{notation}
```

Notation name title very large

Notação 2.10.1:Text before bulletjournalround enviroment.

1 First line of text.

2 Second line of text.

Text out of bulletjournalround enviroment.

2.11 Notebook

```
\begin{notebox}
\lipsum[1][1-3]
\end{notebox}
```



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Presenting Information

3.1 Table

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.



```
\begin{table}[h]
\centering
\begin{tabular}{l l l}
\toprule
\textbf{Treat.} & \textbf{Resp. 1} & \textbf{Resp. 2} \\
\midrule
Treatment 1 & 0.0003262 & 0.562 \\
Treatment 2 & 0.0015681 & 0.910 \\
Treatment 3 & 0.0009271 & 0.296 \\
\bottomrule
\end{tabular}
\caption{Table caption}
\end{table}
```

| Treat. | Resp. 1 | Resp. 2 |
|-------------|-----------|---------|
| Treatment 1 | 0.0003262 | 0.562 |
| Treatment 2 | 0.0015681 | 0.910 |
| Treatment 3 | 0.0009271 | 0.296 |

Tabela 3.1: Table caption

3.2 Figure

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.



```
\begin{figure}[h]
\centering\includegraphics[width=0.3\textwidth]{placeholder.jpg}
\caption{Figure caption}
\end{figure}
```



Figura 3.1: Figure caption



Search image files in directory: ./pictures

PARTE



Macros

Macros

4.1 File math-macros.tex



```
\begin {equation}
\FuncOf {f}{x}
\end {equation}
```

$$f(x) \quad (4.1)$$



```
\begin {equation}
\MinOf {x}{f(x)}
\end {equation}
```

$$\min_x f(x) \quad (4.2)$$



```
\begin {equation}
\ArgMin {x}{f(x)}
\end {equation}
```

$$\arg_x \min f(x) \quad (4.3)$$



```
\begin {equation}
\ArgMinDef {x}{f}
\end {equation}
```

$$\arg_x \min f(x) = \left\{ x | f(x) = \min_{x'} f(x') \right\} \quad (4.4)$$



```
\begin {equation}
\EigenSet {A}{v}{\lambda }
\end {equation}
```

$$\{v, \lambda | Av = \lambda v\} \quad (4.5)$$



```
\begin {equation}
\InnerProd {x}{y}
\end {equation}
```

$$\langle x, y \rangle \quad (4.6)$$



```
\begin {equation}
\Norm {x}
\end {equation}
```

$$\|x\| \quad (4.7)$$



```
\begin {equation}
\Cardinality {x}
\end {equation}
```

$$\text{card}(x) \quad (4.8)$$



```
\begin {equation}
\DiagFunc {x}
\end {equation}
```

$$\text{diag}(x) \quad (4.9)$$



```
\begin {equation}
\Vector {x}
\end {equation}
```

$$\mathbf{x} \quad (4.10)$$



```
\begin {equation}
\Matrix {x}
\end {equation}
```

$$\mathbf{X}$$

(4.11)



```
\begin {equation}
\DtVector {x}
\end {equation}
```

$$\dot{\mathbf{x}}$$

(4.12)



```
\begin {equation}
\DDtVector {x}
\end {equation}
```

$$\ddot{\mathbf{x}}$$

(4.13)



```
\begin {equation}
\DtMatrix {x}
\end {equation}
```

$$\dot{\mathbf{X}}$$

(4.14)



```
\begin {equation}
\DDtMatrix {x}
\end {equation}
```

$$\ddot{\mathbf{X}}$$

(4.15)



```
\begin {equation}
\DPartial {y}{x}
\end {equation}
```

$$\frac{\partial y}{\partial x}$$

(4.16)



```
\begin {equation}  
\DDPartial {y}{x}  
\end {equation}
```

$$\frac{\partial^2 y}{\partial x^2} \quad (4.17)$$



```
\begin {equation}  
\DDPartialXY {z}{x}{y}  
\end {equation}
```

$$\frac{\partial^2 z}{\partial x \partial y} \quad (4.18)$$

PARTE

IV

Referencias

Bibliografia

- [Smi12] John Smith. *Book title*. 1ª edição. Volume 3. 2. City: Publisher, jan. de 2012, páginas 123–200 (ver página 18).
- [Smi13] James Smith. “Article title”. Em: 14.6 (mar. de 2013), páginas 1–8 (ver página 18).

Índice Remissivo

A

Attentionbox 29

B

Boxs 23

Bulletjournalround 29

C

Citation 18

D

Definitions 25

E

Elaborationbox 29

Equationbox 28

Examples 24

Exercises
 Single Line 24

F

Figure 32

Frases e Ditados

 Frase title 28

 Frase title A 17

 Frase title B 17

I

Informationbox 29

L

Lists 18

 Bullet Points 19

 Descriptions and Definitions 19

 Numbered List 18

N

Notations 27

Notebox 30

P

Paragraphs of Text 17

Phrasebox 28

T

Table 31

Theorems

 Several Equations 23

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