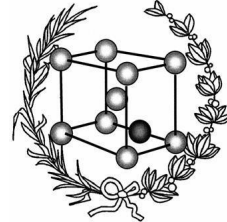


Universidad Politécnica de Madrid

Escuela Técnica Superior de Ingenieros de Caminos, Canales
y Puertos



Project Title

Master's degree dissertation

Student Name

Master's Degree in Materials Engineering

Supervisor(s):

Name(s) of Supervisor(s)

Year of defence

Dedicated to my parents (replace with your own dedication)

Acknowledgements

Write in this section any acknowledgements the student wishes to include, if applicable. The length is limited to one page maximum. In this page, the student may express gratitude to individuals, institutions, or funding sources as deemed appropriate. In any case, all statements should be positive, avoiding any negative reflections.

Abstract

Write a summary of the project. The abstract must be provided in both Spanish and English. Together, both versions should occupy no more than one page.

Resumen

Type here the abstract in Spanish.

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1 Introduction and Objectives

1.1 Introduction

The master's thesis must be written reflecting the most relevant aspects carried out during its development. The recommended length is approximately 75 to 100 pages, although this should be considered as an indicative value. The writing language must be English. However, a summary of the project must be provided in both Spanish and English.

One hardbound copy must be submitted to the library, and a digital copy of the document should also be provided (PDF format is recommended).

1.2 Structure of the Document

It is recommended to structure the thesis into several sections. The following structure is suggested, which should be considered as a guideline since the nature of project topics can vary significantly.

The first chapter should present an introduction and objectives. This section introduces the topic addressed and outlines the objectives pursued in the present work. A recommended length is 3 to 6 pages for the introduction and 1 to 2 pages for the objectives.

The second chapter may include the background of the topic and studies by other authors that form the basis of the research. In this chapter, all referenced works and sources of information must be cited. These references should later appear in the bibliography.

The third chapter should describe the work carried out by the student, with the necessary detail and depth.

The fourth chapter should present the most relevant results of the work.

The fifth chapter should include the conclusions, which must address and align with the objectives initially set. Additionally, this chapter may include a section on future work, if the project is considered interesting for further development.

Next, the references of all works cited in the text should be listed, as well as any sources of information used, such as websites or other materials.

Finally, appendices may be included if necessary. These may contain any additional content. If supplementary material in digital format is included, it should be referenced here.

In addition to the chapters mentioned, the thesis must include a standard cover page, a project summary page (in two languages), and a table of contents. Optionally, two additional pages may be included: one for a dedication and another for acknowledgements.

2 Format of the Document

2.1 Introduction

The thesis should be written in DIN A4 format. Double-sided printing is recommended. The top, bottom, left, and right margins must be 2.5 cm. Additionally, 0.5 cm should be left for binding, resulting in a text width of 15.5 cm. The main body of the text should use Times New Roman font, size 12, with 1.5 line spacing.

It is recommended that the student prints this document double-sided before making any modifications.

2.2 Cover and Spine

The cover (the first page of this document) must be printed in hard red binding for the library copy, as shown in [Figure 1](#). It should include, in addition to the common elements displayed, the project title, the student's name, the name(s) of the supervisor(s), and the year.

Only the student's name and the year should appear on the spine, provided that the document's thickness permits the inclusion of text. The orientation of the text on the spine must follow the European standard (when the book is placed on a shelf, the head should be tilted to the left to read the spine), as shown in [Figure 2](#). The student's name should be centred, and the year should appear at the top.

2.3 Initial Pages

The initial pages of the document must be as follows and in the order listed. These pages should be numbered using Roman numerals, placed at the bottom: aligned to the right on odd pages and to the left on even pages. These pages should not include headers.

- a) Inner cover (same as the hardbound cover, but on paper)

b) Dedication (optional page). If included, the text should be placed approximately one-third down the page, in italics, and aligned to the right.

c) Acknowledgements (optional page). The length is limited to one page. In this section, the student may express gratitude to individuals, institutions, or funding sources as deemed appropriate. All statements must be positive, avoiding any negative reflections.

d) Table of Contents. This section should include the document's table of contents, specifying each chapter and subchapter along with their corresponding page numbers.

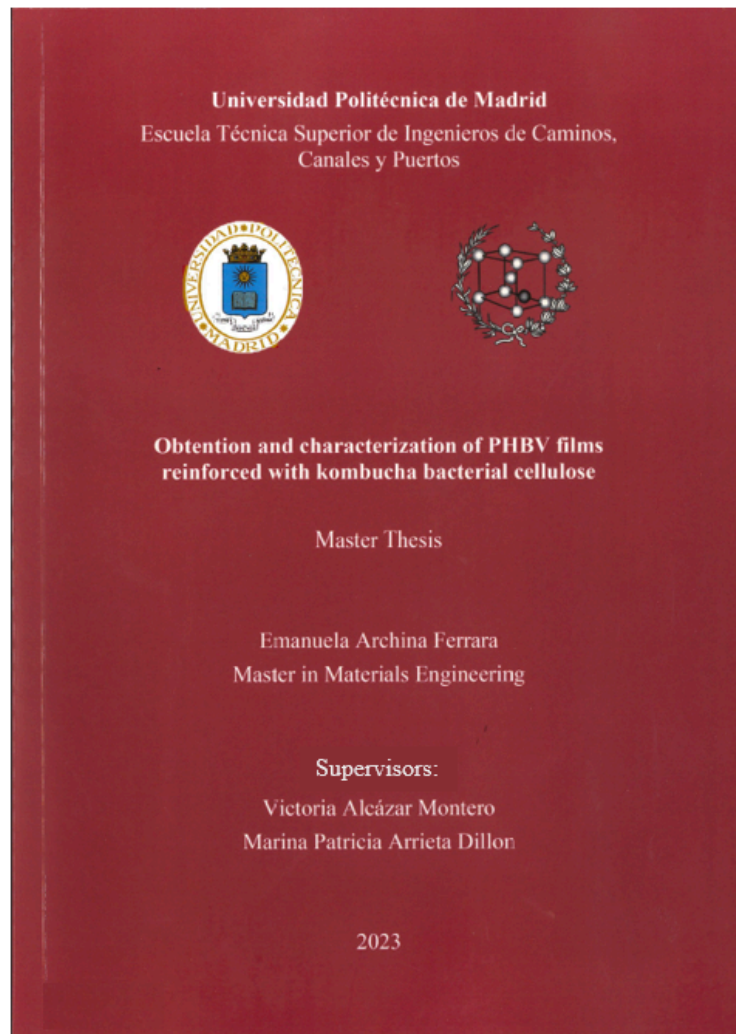


Figure 1. Standard cover of the hardbound document

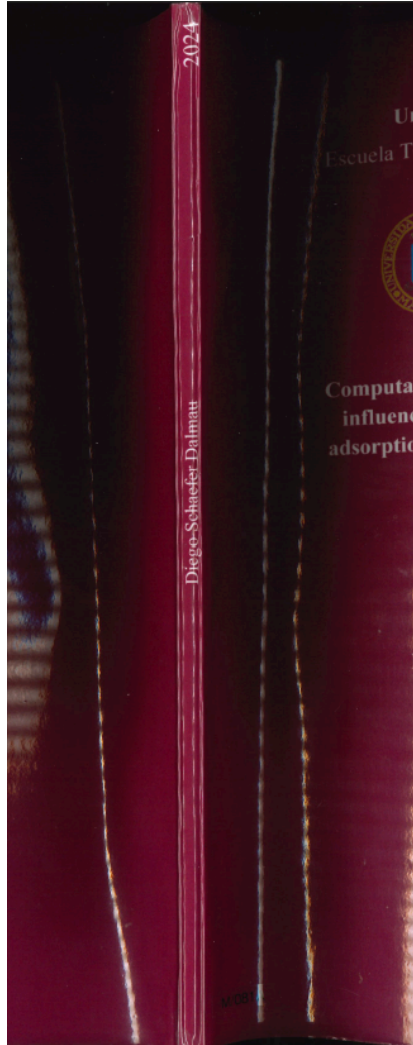


Figure 2. Spine of the binding: student and year in European alignment.

2.4 Body of the Document

The body of the document must be structured into chapters. Each chapter should begin on an odd-numbered page. To achieve this, a blank page should be inserted at the end of the previous chapter when necessary. Chapters must be numbered using Arabic numerals. The different sections within each chapter should follow an Arabic numbering system, adding an additional number for each subsection: 1.1, 1.1.1, 1.1.1.1, etc.

As previously indicated, printing should be double-sided. The top, bottom, left, and right margins must be 2.5 cm. Additionally, 0.5 cm must be reserved for binding, leaving 15.5 cm of width for the text. The main text should be written in Times New Roman, size 12, with 1.5 line spacing.

Page numbers should be in Arabic numerals, placed at the bottom of the page, aligned to the right on odd-numbered pages and to the left on even-numbered pages.

The first page of each chapter should not have a header. The header on odd-numbered pages should be right-aligned, displaying the chapter name as it appears on the current page. The header on even-numbered pages should be left-aligned, displaying the project title. On the even-numbered pages of the chapter, the text “Format of the document” appears, which is the title of the current chapter. The header text is recommended to be Times New Roman, 12 pt, italic, although depending on the length of the project title, the font size may be reduced.

2.4.1 Figures.

All figures must be centered in the document and must have a consecutively numbered caption with the title “Figure.” The figure caption should be placed below the figure. All figures must be referenced in the text. As a general rule, the reference to the figure should appear in the text before the figure itself, which should, whenever possible, appear on the same page or on the following page. Once a figure has already been cited, it does not need to be reproduced again. In the preceding pages, some figures have been shown with their corresponding captions.

2.4.2 Tables

All tables must be centered in the document and must have a consecutively numbered caption with the title “Table.” The table caption should be placed above the table, as shown by way of example in Table 1. All tables must be referenced in the text. As a general rule, the reference to the table should appear in the text before the table itself, which should, whenever possible, appear on the same page or on the following page. Once a table has already been cited, it does not need to be reproduced again. The text within the tables should be the same size or smaller than the main body text of the document.

Table 1. Properties of the studied materials

Material	Elastic Modulus (GPa)	Poisson’s Ratio (n/a)	Yield Strength (MPa)	Fracture Strain (%)
Aluminum	70	0.31	250	12
Steel	210	0.33	450	18
Brass	110	0.30	180	20
Titanium	107	0.29	550	6
Magnesium	45	0.30	75	10

2.4.3 Equations

All equations must be centered in the document and must have a number in parentheses. This number should be placed below and to the right of the equation. It is not necessary to reference every equation in the text, but the most relevant ones should be cited. Once an equation has already been cited, it does not need to be reproduced again.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (1)$$

2.4.4 References

Whenever an idea or result taken from the bibliography is introduced, it must be cited. Likewise, whenever a figure that is not the author's own is included, the corresponding source must be indicated in the figure caption. All citations must appear in consecutive numbering in the order in which they appear in the document, enclosed in brackets. The in-text citation can be made either by simply including the number [1] or by also citing the author, as recommended by Lope de Vega [2].

All references to books must include the author's name, the book title, the publisher, and the year. As an example of references to journal articles, see the bibliography [3], where the authors, the title of the work, the journal, the volume, the year (in parentheses), and the pages should be cited. Additional regulations regarding this document can be found on the degree program's website [4].

1 **References**

2

[1] Miguel de Cervantes. El arte de escribir proyectos fin de carrera. Ed. Góngora. 1988

[2] Lope de Vega. Como cuidar las letras. Ed. Azorín. 2003

[3] F. Gálvez J. M. Atienza, M. Elices. *La escritura de proyectos fin de carrera*. Int. J. of Writting Techniques 12 (2011) 255-261

[4] www.materiales.upm.es

