

The `coppe` document class

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Abstract

In this work, it is described the `coppe` document class as well as other files distributed by the COPPE_{TEX} project. This class is suitable for writing academic dissertations, thesis and qualifying exams according to the formatting rules of the Alberto Luiz Coimbra Institute for Graduate Studies and Research in Engineering. The minimalist set of macro commands allows its users to concentrate most of their efforts on text composition rather than on the document layout.

1 Introduction

Writing documents in \LaTeX may be a laborious task when the authors have to prepare their manuscripts rigorously respecting formatting rules imposed by publishers. Regardless of difficulty, a lot of thesis presented to the Coordination of Graduate Studies and Research in Engineering of the Federal University of Rio de Janeiro (COPPE/UFRJ) is typeset in \LaTeX . This demand motivated the creation of the COPPE_{TEX} project, which tries to facilitate and encourage the use of \LaTeX within the COPPE/UFRJ scope.

The `coppe` document class is the main product of COPPE_{TEX}. It was designed to be clear and succinct. It enables the creation of dissertations, qualifying exams and thesis in a simple and automatic way. The main goal of the `coppe` class is to maintain authors strictly focused on text composition without worrying about margins sizes, line spacing, paper size, vertical and horizontal alignment, etc. The COPPE_{TEX} project comprehends also BIB_{TEX} and MakeIndex style files for creating lists of references, symbols and abbreviations. Although there aren't official guidelines to write qualifying exams, we provide this option just for convenience, as this exam is a requisite to obtain the DSc degree and, for some of the programs, the MSc degree.

In which follows, it is described the user interface of the `coppe` class. Some details about using the style files cited above are also given. We use the term *thesis* to generally refer to dissertation, qualifying exam, and thesis itself.

2 License

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To see the full text of the GNU GPL license, go to the `COPYING` file attached to this package.

3 Support

We maintain a mailing list where users can send questions, comments, and bugs to. More details can be found [here](#).

However, as the project maintenance was transferred to a new repository, bug reports, as well as new feature requests, should be directed to <https://github.com/COPPE-UFRJ/CoppeTeX>.

4 User interface

`\frontmatter` A thesis to be approved by the Academic Registry at COPPE/UFRJ must contain three-parts: *front*, *main* and *back* matters [1]. Each one of these parts is started by calling its corresponding macro `\frontmatter`, `\mainmatter` or `\backmatter`. The front matter of a thesis consists of front cover and face, cataloging page, dedication, acknowledgments, abstracts, table of contents, and lists of tables, algorithms, symbols and abbreviations. The main matter is just composed by chapters, while the back matter usually consists of bibliographic references, appendices and index.

You must invoke the `\frontmatter` macro immediately after the `\maketitle` one. The `\mainmatter` command comes right before the first chapter, and `\backmatter` must be typed before the list of references.

Front cover

This element was recently introduced by the Academic Registry. It is automatically constructed by the `\maketitle` command.

Front face

The front face is unnumbered. There, it is not allowed to use hyphenation [1]. It is constructed by calling `\maketitle`. Next, it is described the commands used to enter the information required to create it.

`\author` The `\author` command was redefined. Here, it takes two arguments: the author's first names and surname, e.g., `\author{First Names}{Surname}`. The words should be typed with only first letters in uppercase.

`\title` The macros `\title` and `\foreigntitle` are used to enter the titles of your monograph in the current and foreign languages. The default languages are Brazilian Portuguese and English. The `babel` package is automatically loaded by `coppe.cls`, so you do not need to load it again. The Brazilian Portuguese is the main language and the English is only required for the foreign abstract.

`\foreigntitle`

`\advisor` Every COPPE student is coordinated by at least one advisor. M.Sc. and D.Sc. students can have at most 2 and 3 advisors, respectively. Their names must be provided by issuing the command `\advisor` as below:

`\examiner`

```
\advisor{Title}{Advisor's Name}{Surname}{Degree}
\advisor{Title}{Second Advisor's Name}{Surname}{Degree}
```

`\advisor{Title}{Third Advisor's Name}{Surname}{Degree}`

The advisors are not necessarily members of the thesis examination board. Thus, it is required to enter the names of all examiners using the `\examiner` macro. The examiners' names are entered differently:

`\examiner{Title}{First Examiner's Name Surname}{Degree}`
`\examiner{Title}{Second Examiner's Name Surname}{Degree}`
`...`
`\examiner{Title}{N-th Examiner's Name Surname}{Degree}`

Remember that all names must be given before calling `\maketitle`.

`\department` The Alberto Luiz Coimbra institute is divided into 12 academic units: Biomedical Engineering (PEB), Civil Engineering (PEC), Electrical Engineering (PEE), Mechanical Engineering (PEM), Metallurgical and Materials Science Engineering (PEMM), Nuclear Engineering (PEN), Ocean Engineering (PENO), Energy Planning (PPE), Production Engineering (PEP), Chemical Engineering (PEQ), Systems Engineering and Computer Science (PESC), and Transportation Engineering (PET). You must specify your department using one of the above abbreviations, e.g., `\department{PEC}`.

`\date` This macro is used to set the month and year of defense. This information is required to create the front face, cataloging details page and abstracts. For example, October 2007 should be entered as `\date{10}{2007}`.

`\keyword` The keywords should describe the concentration areas of your work. You must provide them as follows:

`\keyword{First Keyword}`
`\keyword{Second Keyword}`
`...`
`\keyword{N-th Keyword}`

Usually, six words are enough.

Cataloging details

This page contains cataloging information useful for librarians. Fortunately, it is automatically generated from the data you entered at the time you call `\maketitle`. It is not needed in qualifying exams, though.

Dedication (optional)

`\dedication` This macro was added for convenience. The input text is placed at the right bottom of a blank page. It is emphasized and in normal size.

Abstracts

`abstract` As stated by the Academic Registry [1], abstracts must be in one page each, with
`foreignabstract` at most 250 words. We recommended that they should be only one paragraph long. They must be defined inside the environments `abstract` and `foreignabstract`.

Lists of symbols and abbreviations (optional)

<code>\abbrev</code>	The lists of symbols and abbreviations are optional, although highly recommended.
<code>\syml</code>	It is a good practice to define a symbol/abbreviation in its first occurrence in the text. To define a symbol use <code>\syml{Symbol}{Symbol Definition}</code> , and for abbreviations <code>\abbrev{Abbreviation}{Abbreviation Definition}</code> . These commands are called <i>dummy</i> , since they don't output anything at the place they are executed, just an entry in the correspondent list.
<code>\makeloabbreviations</code>	These lists are lexicographically sorted by using the MakeIndex program, which is part of any L ^A T _E X implementation. MakeIndex needs two commands to create a final sorted list: one which generates a list of entries and the other that indicates the position where the list will be printed out. To generate the lists of symbols and abbreviations, the <code>coppe</code> class provides the commands <code>\makeloabbreviations</code> and <code>\makelosymbols</code> , respectively. They must be called in the document preamble. The commands <code>\printlosymbols</code> and <code>\printloabbreviations</code> have to be invoked at the point where you want these lists appear, e.g., following the list of tables as showed in the example. Once you call <code>latex</code> , it will be created two files with extensions <code>abx</code> and <code>syx</code> , which contain MakeIndex input data. They must be processed with <code>makeindex</code> in order to get the lists correctly produced, redirecting the output to files with extension <code>lab</code> and <code>los</code> respectively:
<code>\makelosymbols</code>	
<code>\printloabbreviations</code>	
<code>\printlosymbols</code>	

```
makeindex -s coppe.ist -o example.lab example.abx
makeindex -s coppe.ist -o example.los example.syx
```

Note the `-s` option for specifying the style `coppe.ist`. Now, rerun `latex` twice to get the references solved and you are done.

References

It is well known that bibliography databases can be easily maintained with the aid of BibT_EX. Thus, the COPPET_EX project designed two BibT_EX styles, `coppe-plain.bst` and `coppe-unsrt.bst`. The `coppe-plain.bst` creates a list of references alphabetically sorted. The later is a numbered style, which sorts references by the order of citation. To use them, you have to select either `coppe-plain` or `coppe-unsrt` as the BibT_EX style and include your BibT_EX references without the `bib` extension, as in the following example:

```
\bibliographystyle{coppe-unsrt}
\bibliography{example}
```

Run in sequence L^AT_EX, BibT_EX, and twice again L^AT_EX to resolve reference. These styles are `natbib` compatible. This means that you can freely issue the commands `\citet` and `\citep`, as well as any other `natbib` feature.

5 Class options

There are some options users can specify in order to customize the appearance of the output produced by the `coppe` class. These options can be passed to `coppe` as follows: `\documentclass[option1, option2]{coppe}`. In which follows, we give a brief description of all supported options.

dsc, msc, dsccexam, msccexam The **coppe** class is able to produce thesis, dissertations, and qualifying exams, which are enabled by the **dsc**, **msc**, **msccexam**, and **dsccexam** options, respectively.

doublespacing The default line spacing is one-and-a-half. For enabling double spacing between lines, use the **doublespacing** option.

numbers The default citation style is the author-year scheme, which must be followed by the use of its corresponding BibTeX style, namely, the **coppe-plain.bst** file. For numbered citations, specify the option **numbers** to the **coppe** class. In this case, it is mandatory the use of **coppe-unsrt.bst**, as the bibliography style.

5.1 Changing document identification

\freeconfig The user could *optionally* use the command **freeconfig** to modify the parameters that print the document identification. The command **freeconfig** needs all those parameters, which are degree initials, degree name, title, foreign title, local doctype, and foreign doctype as in the following example:

```
\freeconfig{Dr.}{Philosophiae Doctor}{PhD}{Doutor}{Dissertation}{Tese}
```

6 Quick, useful tips

Pictures. The default picture format of L^AT_EX is the Encapsulated PostScript (EPS). If you use pdfL^AT_EX, the default format becomes the PDF, but you can equally load PNG files. For such, you must enter the name of your image file without extension, e.g., `\includegraphics{filename}`, and pdf_latex will firstly look for a file called `filename.pdf` and after for file `filename.png`. For producing high quality pictures with embedded fonts we recommend the Ipe drawing software available [here](#).

Fonts. The default font in L^AT_EX is the Computer Modern. If you would like to try its enhanced version, consider using the **lmodern** package. To use Times, it is recommended to load the package **mathptmx**, rather than the deprecated **times**. There is also an enhanced Times version available with the **tgtermes** package. You can still use the Arial font face with the package **uarial**.

Hyperref. When working with PDF's, there is the possibility to add extra information to the file as the author's name, document title, subject, keywords, etc. This is easily done with the **hyperref** package. It is also useful to enable hyperlinks. Fortunately, the **coppe** class will do this automatically if **hyperref** is loaded.

Printing. To get your work correctly printed, you must ensure that any page scaling option (e.g., fit or shrink to printable area) isn't enabled. This kind of option often comes in print dialogs of document visualization softwares.

`longquote` **Quotation** To quote text larger than three lines, according to ABNT, you must increase the left margin to 4 cm, do not use quotation marks, and use a smaller font. The `coppe` class provides the `longquote` environment to easily make these adjustments.

7 A simple example

```

1 (*example)
2 \documentclass[dsc,numbers]{coppe}
3 \usepackage{amsmath,amssymb}
4 \usepackage{hyperref}
5
6
7
8 \makelosymbols
9 \makeloabbreviations
10
11 \begin{document}
12   \title{T\'itulo da Tese}
13   \foreigntitle{Thesis Title}
14   \author{Nome do Autor}{Sobrenome}
15   \advisor{Prof.}{Nome do Primeiro Orientador}{Sobrenome}{D.Sc.}
16   \advisor{Prof.}{Nome do Segundo Orientador}{Sobrenome}{Ph.D.}
17   \advisor{Prof.}{Nome do Terceiro Orientador}{Sobrenome}{D.Sc.}
18
19   \examiner{Prof.}{Nome do Primeiro Examinador Sobrenome}{D.Sc.}
20   \examiner{Prof.}{Nome do Segundo Examinador Sobrenome}{Ph.D.}
21   \examiner{Prof.}{Nome do Terceiro Examinador Sobrenome}{D.Sc.}
22   \examiner{Prof.}{Nome do Quarto Examinador Sobrenome}{Ph.D.}
23   \examiner{Prof.}{Nome do Quinto Examinador Sobrenome}{Ph.D.}
24   \department{PEC}
25   \date{02}{2011}
26
27   \keyword{Primeira palavra-chave}
28   \keyword{Segunda palavra-chave}
29   \keyword{Terceira palavra-chave}
30
31   \maketitle
32
33   \frontmatter
34   \dedication{A algu\'em cujo valor \'e digno desta dedicat\'oria.}
35
36   \chapter*{Agradecimentos}
37
38   Gostaria de agradecer a todos.
39
40   \begin{abstract}
41
42   Apresenta-se, nesta tese, ...
43
44   \end{abstract}
45
46   \begin{foreignabstract}

```

```

47
48 In this work, we present ...
49
50 \end{foreignabstract}
51
52 \tableofcontents
53 \listoffigures
54 \listoftables
55 \printlosymbols
56 \printloabbreviations
57
58 \mainmatter
59 \chapter{Introdu{\c c}\~ao}
60
61 Segundo a norma de formata{\c c}\~ao de teses e disserta{\c c}\~oes do
62 Instituto Alberto Luiz Coimbra de P\~os-gradua{\c c}\~ao e Pesquisa de
63 Engenharia (COPPE), toda abreviatura deve ser definida antes de
64 utilizada.\abbrev{COPPE}{Instituto Alberto Luiz Coimbra de P\~os-gradua{\c
65 c}\~ao e Pesquisa de Engenharia}
66
67 Do mesmo modo, \e imprescind\~ivel definir os s\~imbolos, tal como o
68 conjunto dos n\~umeros reais  $\mathbb{R}$  e o conjunto vazio  $\emptyset$ .
69 \syml{\mathbb{R}}{Conjunto dos n\~umeros reais}
70 \syml{\emptyset}{Conjunto vazio}
71
72 \begin{longquote}
73 Um exemplo de citação longa nas regras da ABNT (4cm de recuo e fonte menor)
74 feita com o ambiente \verb=longquote= The primary objective of this
75 investigation was to determine the feasibility of detecting corrosion in
76 aluminum Naval aircraft components with neutron radiographic interrogation
77 and the use of standard corrosion penetrameters. Secondary objectives
78 included the determination of the effect of object thickness on image quality,
79 the defining of minimum levels of detectability and a preliminary investigation
80 of a means whereby the degree of corrosion could be quantified with neutron
81 radiographic data. \cite{article-example}
82 \end{longquote}
83
84
85 \chapter{Revis\~ao Bibliogr\~afica}
86
87 Para ilustrar a completa ades\~ao ao estilo de cita{\c c}\~oes e listagem de
88 refer\~encias bibliogr\~aficas, a Tabela\ref{tab:citation} apresenta cita{\c
89 c}\~oes de alguns dos trabalhos contidos na norma fornecida pela CPGP da
90 COPPE, utilizando o estilo num\~erico.
91
92 \begin{table}[h]
93 \caption{Exemplos de cita{\c c}\~oes utilizando o comando padr\~ao
94 \texttt{\textbackslash cite} do \LaTeX\ e
95 o comando \texttt{\textbackslash cite},
96 fornecido pelo pacote \texttt{natbib}.}
97 \label{tab:citation}
98 \centering
99 {\footnotesize
100 \begin{tabular}{|c|c|c|}

```

```

101 \hline
102 Tipo da Publica{\c c}\~ao & \verb|\cite| & \verb|\citet|\
103 \hline
104 Livro & \cite{book-example} & \citet{book-example}\
105 Artigo & \cite{article-example} & \citet{article-example}\
106 Relat\’orio & \cite{techreport-example} & \citet{techreport-example}\
107 Relat\’orio & \cite{techreport-exampleIn} & \citet{techreport-exampleIn}\
108 Anais de Congresso & \cite{inproceedings-example} &
109 \citet{inproceedings-example}\
110 S\’eries & \cite{incollection-example} & \citet{incollection-example}\
111 Em Livro & \cite{inbook-example} & \citet{inbook-example}\
112 Disserta{\c c}\~ao de mestrado & \cite{mastersthesis-example} &
113 \citet{mastersthesis-example}\
114 Tese de doutorado & \cite{phdthesis-example} & \citet{phdthesis-example}\
115 \hline
116 \end{tabular}}
117 \end{table}
118
119 \chapter{M\’etodo Proposto}
120 \chapter{Resultados e Discuss\~oes}
121 \chapter{Conclus\~oes}
122
123 \backmatter
124 \bibliographystyle{coppe-unsrc}
125 \bibliography{example}
126
127 \appendix
128 \chapter{Algumas Demonstra{\c c}\~oes}
129 \end{document}
130 \example

```

8 Implementation

8.1 The ‘coppe.cls’ file

```

131 \*class
132 \def\filename{coppe.dtx}
133 \def\fileversion{v3.0}
134 \def\filedate{2020/03/02}
135 \NeedsTeXFormat{LaTeX2e}[1995/12/01]
136 \ProvidesClass{coppe}[\filedate\ \fileversion\ COPPE Dissertations and Thesis]
137 \LoadClass[12pt,a4paper,oneside]{book}
138 \RequirePackage{sort&compress}{natbib}
139 \RequirePackage{hyphenat}
140 \RequirePackage{lastpage}
141 \RequirePackage{ifthen}
142 \RequirePackage{graphicx}
143 \RequirePackage{setspace}
144 \RequirePackage{tabularx}
145 \RequirePackage{eqparbox}
146 \RequirePackage{ltxcmds}
147 \RequirePackage[T1]{fontenc}
148 \RequirePackage[a4paper,bindingoffset=0.0cm,vcentering=true,%
149 top=2.5cm,bottom=2.5cm,left=3.0cm,right=3.0cm]{geometry}

```



```

150 \def\CoppeTeX{{\rm C\kern-.05em{\sc o\kern-.025em p\kern-.025em
151 p\kern-.025em e}}\kern-.08em
152 T\kern-.1667em\lower.5ex\hbox{E}\kern-.125emX\spacefactor1000}

153 \newboolean{maledoc}
154 \setboolean{maledoc}{false}
155 %
156 % Class options.
157 % If you are writing a text in English, you must turn ‘‘English’’ on.
158 % Otherwise, Portuguese is considered the main language.
159 \newif\if@english\@englishfalse
160 \DeclareOption{english}{\@englishtrue}
161 \DeclareOption{msc}{%
162   \newcommand{\@degree}{M.Sc.}
163   \newcommand{\@degree name}{Mestrado}
164   \newcommand{\local@degname}{Mestre}
165   \newcommand{\foreign@degname}{Master}
166   \newcommand\local@doctype{Disserta{\c c}{\~ a}o}
167   \newcommand\foreign@doctype{Dissertation}
168 }
169 \DeclareOption{dsceexam}{%
170   \newcommand{\@degree}{D.Sc.}
171   \newcommand{\@degree name}{Doutorado}
172   \newcommand{\local@degname}{Doutor}
173   \newcommand{\foreign@degname}{Doctor}
174   \setboolean{maledoc}{true}
175   \newcommand\local@doctype{Exame de Qualifica{\c c}{\~ a}o}
176   \newcommand\foreign@doctype{Qualifying Exam}
177 }
178 \DeclareOption{msceexam}{%
179   \newcommand{\@degree}{M.Sc.}
180   \newcommand{\@degree name}{Mestrado}
181   \newcommand{\local@degname}{Mestre}
182   \newcommand{\foreign@degname}{Master}
183   \setboolean{maledoc}{true}
184   \newcommand\local@doctype{Exame de Qualifica{\c c}{\~ a}o}
185   \newcommand\foreign@doctype{Qualifying Exam}
186 }
187 \DeclareOption{dsc}{%
188   \newcommand{\@degree}{D.Sc.}
189   \newcommand{\@degree name}{Doutorado}
190   \newcommand{\local@degname}{Doutor}
191   \newcommand{\foreign@degname}{Doctor}
192   \newcommand\local@doctype{Tese}
193   \newcommand\foreign@doctype{Thesis}
194 }
195 \DeclareOption{numbers}{%
196   \PassOptionsToPackage{numbers}{natbib}
197 }

```

Here is the default one-and-a-half line spacing. Users can change to double spacing by passing the `doublespacing` option.

```

198 \onehalfspacing
199 \DeclareOption{doublespacing}{%
200   \doublespacing

```

```

201 }
202 \ProcessOptions\relax
203 \if@english
204   \RequirePackage[english]{babel}
205 \else
206   \RequirePackage[english,brazil]{babel}
207 \fi
208 \addto{\captionenglish}{%
209   \renewcommand{\bibname}{References}
210 }

```

\department This macro is used to set the author's affiliation. There are twelve options which correspond to all academic units at COPPE/UFRJ. It defines the current and the foreign names of these units.

```

211 \newcommand\department[1]{%
212   \ifthenelse{\equal{#1}{PEB}}{
213     {\global\def\local@deptname{Engenharia Biom{\` e}dica}
214     \global\def\foreign@deptname{Biomedical Engineering}}{}
215   \ifthenelse{\equal{#1}{PEC}}{
216     {\global\def\local@deptname{Engenharia Civil}
217     \global\def\foreign@deptname{Civil Engineering}}{}
218   \ifthenelse{\equal{#1}{PEE}}{
219     {\global\def\local@deptname{Engenharia El{\` e}trica}
220     \global\def\foreign@deptname{Electrical Engineering}}{}
221   \ifthenelse{\equal{#1}{PEM}}{
222     {\global\def\local@deptname{Engenharia Mec{\` a}nica}
223     \global\def\foreign@deptname{Mechanical Engineering}}{}
224   \ifthenelse{\equal{#1}{PEMM}}{
225     {\global\def\local@deptname{Engenharia Metal{\` u}rgica e de Materiais}
226     \global\def\foreign@deptname{Metallurgical and Materials Engineering}}{}
227   \ifthenelse{\equal{#1}{PEN}}{
228     {\global\def\local@deptname{Engenharia Nuclear}
229     \global\def\foreign@deptname{Nuclear Engineering}}{}
230   \ifthenelse{\equal{#1}{PEN0}}{
231     {\global\def\local@deptname{Engenharia Oce{\` a}nica}
232     \global\def\foreign@deptname{Ocean Engineering}}{}
233   \ifthenelse{\equal{#1}{PPE}}{
234     {\global\def\local@deptname{Planejamento Energ{\` e}tico}
235     \global\def\foreign@deptname{Energy Planning}}{}
236   \ifthenelse{\equal{#1}{PEP}}{
237     {\global\def\local@deptname{Engenharia de Produ{\c c}{\` a}o}
238     \global\def\foreign@deptname{Production Engineering}}{}
239   \ifthenelse{\equal{#1}{PEQ}}{
240     {\global\def\local@deptname{Engenharia Qu{\` i}mica}
241     \global\def\foreign@deptname{Chemical Engineering}}{}
242   \ifthenelse{\equal{#1}{PESC}}{
243     {\global\def\local@deptname{Engenharia de Sistemas e Computa{\c c}{\` a}o}
244     \global\def\foreign@deptname{Systems Engineering and Computer Science}}{}
245   \ifthenelse{\equal{#1}{PET}}{
246     {\global\def\local@deptname{Engenharia de Transportes}
247     \global\def\foreign@deptname{Transportation Engineering}}{}
248   \ifthenelse{\equal{#1}{PENT}}{
249     {\global\def\local@deptname{Engenharia de Nanotecnologia}
250     \global\def\foreign@deptname{Nanotechnology Engineering}}{}

```

```

251 }

\ttitle Used to enter the title in Brazilian Portuguese.
252 \renewcommand\ttitle[1]{%
253   \global\def\local@title{#1}%
254 }

\foreigntitle Used to enter the foreign title.
255 \newcommand\foreigntitle[1]{%
256   \global\def\foreign@title{#1}%
257 }

\advisor Defines globally the title, name and academic degree of the advisors.
258 \newcount\@advisor\@advisor0
259 \newcommand\advisor[4]{%
260   \global\@namedef{CoppeAdvisorTitle:\expandafter\the\@advisor}{#1}
261   \global\@namedef{CoppeAdvisorName:\expandafter\the\@advisor}{#2}
262   \global\@namedef{CoppeAdvisorSurname:\expandafter\the\@advisor}{#3}
263   \global\@namedef{CoppeAdvisorDegree:\expandafter\the\@advisor}{#4}
264   \global\advance\@advisor by 1
265   \ifnum\@advisor>1
266     \renewcommand\local@advisorstring{Orientadores}
267     \renewcommand\foreign@advisorstring{Advisors}
268   \fi
269 }

\examiner
270 \newcount\@examiner\@examiner0
271 \newcommand\examiner[3]{%
272   \global\@namedef{CoppeExaminer:\expandafter\the\@examiner}{#1\ #2}
273   \global\advance\@examiner by 1
274 }

\author It was redefined to allow the identification of the author's first names and surname.
275 \renewcommand\author[2]{%
276   \global\def\@authname{#1}
277   \global\def\@authsurn{#2}
278 }

\date This code makes easy to switch from dates in different languages.
279 \renewcommand\date[2]{%
280   \month=#1
281   \year=#2
282 }

\local@monthname
283 \newcommand\local@monthname{\ifcase\month\or
284   Janeiro\or Fevereiro\or Mar{c c}\o\or Abril\or Maio\or Junho\or
285   Julho\or Agosto\or Setembro\or Outubro\or Novembro\or Dezembro\fi}

\foreign@monthname
286 \newcommand\foreign@monthname{\ifcase\month\or
287   January\or February\or March\or April\or May\or June\or
288   July\or August\or September\or October\or November\or December\fi}

```

```

\keyword
289 \newcounter{keywords}
290 \newcommand\keyword[1]{%
291   \global\@namedef{CoppeKeyword:\expandafter\the\c@keywords}{#1}
292   \global\addtocounter{keywords}{1}
293 }

\freeconfig This command allows easy changing of core class parameters.
294 \newcommand\freeconfig[6]{%
295 \providecommand\@degree{}
296 \renewcommand\@degree{#1}
297 \providecommand\@degreename{}
298 \renewcommand\@degreename{#2}
299 \providecommand\local@degname{}
300 \renewcommand\local@degname{#3}
301 \providecommand\foreign@degname{}
302 \renewcommand\foreign@degname{#4}
303 \providecommand\local@doctype{}
304 \renewcommand\local@doctype{#5}
305 \providecommand\foreign@doctype{}
306 \renewcommand\foreign@doctype{#6}%
307 }
308 %   \end{macrocode}
309 % \end{macro}
310 %
311 % \begin{macro}{\frontmatter}
312 % The number of pages for both frontmatter and mainmatter printed
313 % in the cataloging details page is computed by means of simple
314 % \LaTeX\ labels.
315 %   \begin{macrocode}
316 \renewcommand\frontmatter{%
317   \cleardoublepage
318   \@mainmatterfalse
319   \pagenumbering{roman}
320   \thispagestyle{empty}
321   \setcounter{page}{2}
322   \makefrontpage
323   \clearpage
324   \pagestyle{plain}
325   \ifthenelse{\boolean{maledoc}}{\}\{\makecatalog}%
326 }

\mainmatter
327 \renewcommand\mainmatter{%
328   \coppe@mainBegin
329   \cleardoublepage
330   \@mainmattertrue
331   \pagestyle{plain}
332   \pagenumbering{arabic}}

\backmatter
333 \renewcommand\backmatter{%
334   \if@openright
335     \cleardoublepage

```

```

336 \else
337 \clearpage
338 \fi}
339 %

\maketitle
340 \renewcommand\maketitle{%
341 \pagenumbering{alph}
342 \ltx@ifpackageloaded{hyperref}{\coppe@hypersetup}{}%
343 \begin{titlepage}
344 \begin{flushleft}
345 \vspace*{1.5mm}
346 \setlength\baselineskip{0pt}
347 \setlength\parskip{1mm}
348 \makebox[20mm][c]{\hspace{4.8cm}\includegraphics{coppe-logo}}
349 \end{flushleft}
350 \vspace{1.05cm}
351 \begin{center}
352 \nohyphens{%
353 \if@english
354 \MakeUppercase\foreign@title
355 \else
356 \MakeUppercase\local@title
357 \fi}\par
358 \vspace*{3cm}
359 \nohyphens{\@authname\ \@authsur}\par
360 \end{center}
361 \vspace*{2.1cm}
362 \begin{flushright}
363 \begin{minipage}{8.45cm}
364 \frontcover@maintext
365 \end{minipage}\par
366 \vspace*{7.5mm}
367 \nohyphens{%
368 \begin{tabularx}{8.45cm}[b]{@{}l@{ }>{\raggedright\arraybackslash}X@{}}
369 \local@advisorstring: &
370 \count1=0
371 \toks@={}
372 \@whilenum \count1<\@advisor \do{%
373 \ifcase\count1 % same as \ifnum0=\count1
374 \toks@=\expandafter{\csname CoppeAdvisorName:\the\count1%
375 \expandafter\endcsname\expandafter\space%
376 \csname CoppeAdvisorSurname:\the\count1\endcsname\\}
377 \else
378 \toks@=\expandafter\expandafter\expandafter{%
379 \expandafter\the\expandafter\toks@%
380 \expandafter&\expandafter\space%
381 \csname CoppeAdvisorName:\the\count1\expandafter\endcsname%
382 \expandafter\space\csname CoppeAdvisorSurname:\the\count1\endcsname\\}
383 }%
384 \fi
385 \advance\count1 by 1}
386 \the\toks@
387 \end{tabularx}}\par

```

```

388 \end{flushright}
389 \vspace*{\fill}
390 \begin{center}
391 \local@cityname\par
392 \local@monthname\ de \number\year
393 \end{center}
394 \end{titlepage}
395 \global\let\maketitle\relax%
396 \global\let\and\relax}

397 \newcommand\makefrontpage{%
398 \begin{center}
399 \sloppy\nohyphens{
400 \if@english
401 \MakeUppercase\foreign@title
402 \else
403 \MakeUppercase\local@title
404 \fi}\par
405 \vspace*{7mm}
406 {\@authname\ \@authsurname}\par
407 \end{center}\par
408 \vspace*{4mm}
409 \frontpage@maintext
410 \vspace*{16mm}
411 \nohyphens{%
412 \noindent\begin{tabularx}{\textwidth}[b]{@{}l@{ }>{\raggedright\arraybackslash}X@{}}
413 \local@advisorstring: &
414 \count1=0
415 \toks@={}
416 \@whilenum \count1<\@advisor \do{%
417 \ifcase\count1 % same as \ifnum0=\count1
418 \toks@=\expandafter{\csname CoppeAdvisorName:\the\count1%
419 \expandafter\endcsname\expandafter\space%
420 \csname CoppeAdvisorSurname:\the\count1\endcsname\\}
421 \else
422 \toks@=\expandafter\expandafter\expandafter{%
423 \expandafter\the\expandafter\toks@%
424 \expandafter&\expandafter\space%
425 \csname CoppeAdvisorName:\the\count1\expandafter\endcsname%
426 \expandafter\space\csname CoppeAdvisorSurname:\the\count1\endcsname\\}
427 }%
428 \fi
429 \advance\count1 by 1}
430 \the\toks@
431 \end{tabularx}}\par
432 \vspace*{20mm}
433 \noindent\begin{tabularx}{\textwidth}[b]{@{}l@{ }>{\raggedright\arraybackslash}X@{}}
434 Aprobada por: &
435 \count1=0
436 \toks@={}
437 \@whilenum \count1<\@examiner \do{%
438 \ifcase\count1 % same as \ifnum0=\count1
439 \toks@=\expandafter{\csname CoppeExaminer:\the\count1%
440 \expandafter\endcsname\expandafter\\}

```

```

441 \else
442 \toks@=\expandafter\expandafter\expandafter{%
443 \expandafter\the\expandafter\toks@%
444 \expandafter&\expandafter\space%
445 \csname CoppeExaminer:\the\count1\expandafter\endcsname%
446 \expandafter\space\\
447 }%
448 \fi
449 \advance\count1 by 1}
450 \the\toks@
451 \end{tabularx}}\par
452 \vspace*{\fill}
453 \frontpage@bottomtext}

454 \newcommand\coppe@hypersetup{%
455 \begingroup
456 % changes to \toks@ and \count@ are kept local;
457 % it's not necessary for them, but it is usually the case
458 % for \count1, because the first ten counters are written
459 % to the DVI file, thus you got lucky because of PDF output
460 \toks@={} % in this special case not necessary
461 \count@=0 %
462 \@whilenum\count@<\value{keywords}\do{%
463 % * a keyword separator is not necessary,
464 % if there is just one keyword
465 % * \csname CoppeKeyword:\the\count@\endcsname must be expanded
466 % at least once, to get rid of the loop depended \count@
467 \ifcase\count@ % same as \ifnum0=\count@
468 \toks@=\expandafter{\csname CoppeKeyword:\the\count@\endcsname}%
469 \else
470 \toks@=\expandafter\expandafter\expandafter{%
471 \expandafter\the\expandafter\toks@
472 \expandafter;\expandafter\space
473 \csname CoppeKeyword:\the\count@\endcsname
474 }%
475 \fi
476 \advance\count@ by 1 %
477 }%
478 \edef\x{\endgroup
479 \noexpand\hypersetup{%
480 pdfkeywords={\the\toks@}%
481 }%
482 }%
483 \x
484 \hypersetup{%
485 pdfauthor={\@authname\ \@authsur},
486 pdftitle={\local@title},
487 pdfsubject={\local@doctype\ de \@degreename\ em \local@deptname\ da COPPE/UFRJ},
488 pdfcreator={LaTeX with CoppeTeX toolkit},
489 breaklinks={true},
490 raiselinks={true},
491 pageanchor={true},
492 }}

```

\makecatalog When the document has illustrations, it is required to insert “: il.” between the

number of pages of the textual part and the page dimension. We have created a label to flag the existence of lists of figures. It is checked to be undefined using the plain T_EX command `\@isundefined` [7].

```

493 \newcommand\makecatalog{%
494   \vspace*{\fill}
495   \begin{center}
496     \setlength{\fboxsep}{5mm}
497     \framebox[120mm][c]{\makebox[5mm][c]{}%
498       \begin{minipage}[c]{105mm}
499         \setlength{\parindent}{5mm}
500         \noindent\sloppy\nohyphens\@authsurn,
501         \nohyphens\@authname\par
502         \nohyphens{%
503           \if@english
504             \foreign@title%
505           \else
506             \local@title%
507           \fi/\@authname\ \@authsurn. -- \local@cityname:
508 UFRJ/COPPE, \number\year.}\par
509 \pageref{front:pageno},
510 \pageref{LastPage}
511 p.\@ifundefined{r@cat:lofflag}{}{\pageref{cat:lofflag}} $29,7$cm.\par
512 % There is an issue here. When the last entry must be split between lines,
513 % the spacing between it and the next paragraph becomes smaller.
514 % Should we manually introduce a fixed space? But how could we know that
515 % a name was split? Is this happening yet?
516 \nohyphens{%
517 \begin{tabularx}{100mm}[b]{@{}l@{ }>{\raggedright\arraybackslash}X@{}}
518   \local@advisorstring: &
519   \count1=0
520   \toks@={}
521   \@whilenum \count1<\@advisor \do{%
522     \ifcase\count1 % same as \ifnum0=\count1
523       \toks@=\expandafter{\csname CoppeAdvisorName:\the\count1%
524         \expandafter\endcsname\expandafter\space%
525         \csname CoppeAdvisorSurname:\the\count1\endcsname\\}
526     \else
527       \toks@=\expandafter\expandafter\expandafter{%
528         \expandafter\the\expandafter\toks@
529         \expandafter&\expandafter\space
530         \csname CoppeAdvisorName:\the\count1\expandafter\endcsname%
531         \expandafter\space\csname CoppeAdvisorSurname:\the\count1\endcsname\\}
532     }%
533   \fi
534   \advance\count1 by 1}
535   \the\toks@
536 \end{tabularx}}\par
537 \nohyphens{\local@doctype\ ({\MakeLowercase\@degreename}) --
538 UFRJ/COPPE/Programa de \local@deptname, \number\year.}\par
539 Refer{\^ e}ncias Bibliogr{\` a}ficas: p. \pageref{bib:begin} -- \pageref{bib:end}.\par
540 \count1=0
541 \count2=1
542 \nohyphens{\@whilenum \count1<\value{keywords} \do {%
543   \number\count2. \csname CoppeKeyword:\the\count1 \endcsname.

```



```

544     \advance\count1 by 1
545     \advance\count2 by 1}
546     I. \csname CoppeAdvisorSurname:0\endcsname,%
547     \ \csname CoppeAdvisorName:0\endcsname%
548     \ifthenelse{\@advisor>1}{\ \emph{et~al.}\{}}.
549     II. \local@universityname, COPPE, Programa de \local@deptname.
550     III. T{\ ' i}tulo.}
551 \end{minipage}}
552 \end{center}
553 \vspace*{\fill}}

```

\dedication

```

554 \newcommand\dedication[1]{
555   \gdef\@dedic{#1}
556   \cleardoublepage
557   \vspace*{\fill}
558   \begin{flushright}
559     \begin{minipage}{60mm}
560       \raggedleft \it \normalsize \@dedic
561     \end{minipage}
562   \end{flushright}}

```

abstract This is a specialization of the abstract in the article standard class.

```

563 \newenvironment{abstract}{%
564   \clearpage
565   \thispagestyle{plain}
566   \abstract@toptext\par
567   \vspace*{8.6mm}
568   \begin{center}
569     \sloppy\nohyphens{\MakeUppercase\local@title}\par
570     \vspace*{13.2mm}
571     \@authname\ \@authsur \par
572     \vspace*{7mm}
573     \local@monthname/\number\year
574   \end{center}\par
575   \vspace*{\fill}
576   \noindent%
577   \begin{tabularx}{\textwidth}[b]{@{}l@{ }>{\raggedright\arraybackslash}X@{}}
578     \local@advisorstring: &
579     \count1=0
580     \toks@={}
581     \@whilenum \count1<\@advisor \do{%
582       \ifcase\count1 % same as \ifnum0=\count1
583         \toks@=\expandafter{\csname CoppeAdvisorName:\the\count1%
584         \expandafter\endcsname\expandafter\space%
585         \csname CoppeAdvisorSurname:\the\count1\endcsname\\}
586       \else
587         \toks@=\expandafter\expandafter\expandafter{%
588         \expandafter\the\expandafter\toks@
589         \expandafter&\expandafter\space
590         \csname CoppeAdvisorName:\the\count1\expandafter\endcsname%
591         \expandafter\space\csname CoppeAdvisorSurname:\the\count1\endcsname\\
592       }%
593     \fi

```

```

594 \advance\count1 by 1}
595 \the\toks@
596 \end{tabularx}\par
597 \vspace*{2mm}
598 \noindent\local@deptstring: \local@deptname\par
599 \vspace*{7mm}}{\vspace*{\fill}}

```

foreignabstract

```

600 \newenvironment{foreignabstract}{%
601 \clearpage
602 \thispagestyle{plain}
603 \begin{otherlanguage}{english}
604 \foreignabstract@toptext\par
605 \vspace*{8.6mm}
606 \begin{center}
607 \sloppy\nohyphens{\MakeUppercase\foreign@title}\par
608 \vspace*{13.2mm}
609 \@authname\ \@authsurn \par
610 \vspace*{7mm}
611 \foreign@monthname/\number\year
612 \end{center}\par
613 \vspace*{\fill}
614 \noindent%
615 \begin{tabularx}{\textwidth}[b]{@{}l@{ }>{\raggedright\arraybackslash}X@{}}
616 \foreign@advisorstring: &
617 \count1=0
618 \toks@={}
619 \@whilenum \count1<\@advisor \do{%
620 \ifcase\count1 % same as \ifnum0=\count1
621 \toks@=\expandafter{\csname CoppeAdvisorName:\the\count1%
622 \expandafter\endcsname\expandafter\space%
623 \csname CoppeAdvisorSurname:\the\count1\endcsname\\}
624 \else
625 \toks@=\expandafter\expandafter\expandafter{%
626 \expandafter\the\expandafter\toks@
627 \expandafter&\expandafter\space
628 \csname CoppeAdvisorName:\the\count1\expandafter\endcsname%
629 \expandafter\space\csname CoppeAdvisorSurname:\the\count1\endcsname\\}
630 }%
631 \fi
632 \advance\count1 by 1}
633 \the\toks@
634 \end{tabularx}\par
635 \vspace*{2mm}
636 \noindent\foreign@deptstring: \foreign@deptname\par
637 \vspace*{7mm}}{%
638 \end{otherlanguage}
639 \vspace*{\fill}
640 \global\let\@author\@empty
641 \global\let\@date\@empty
642 \global\let\foreign@title\@empty
643 \global\let\foreign@title\relax
644 \global\let\local@title\@empty
645 \global\let\local@title\relax

```

```

646 \global\let\author\relax
647 \global\let\author\relax
648 \global\let\date\relax}

\listoffigures
649 \renewcommand\listoffigures{%
650     \coppe@hasLof
651     \if@twocolumn
652         \@restonecoltrue\onecolumn
653     \else
654         \@restonecolfalse
655     \fi
656     \chapter*{\listfigurename}%
657     \addcontentsline{toc}{chapter}{\listfigurename}%
658     \mkboth{\MakeUppercase\listfigurename}%
659         {\MakeUppercase\listfigurename}%
660     \@starttoc{lof}%
661     \if@restonecol\twocolumn\fi
662 }

\listoftables
663 \renewcommand\listoftables{%
664     \if@twocolumn
665         \@restonecoltrue\onecolumn
666     \else
667         \@restonecolfalse
668     \fi
669     \chapter*{\listtablename}%
670     \addcontentsline{toc}{chapter}{\listtablename}%
671     \mkboth{%
672         \MakeUppercase\listtablename}%
673         {\MakeUppercase\listtablename}%
674     \@starttoc{lot}%
675     \if@restonecol\twocolumn\fi
676 }

\printlosymbols
677 \newcommand\printlosymbols{%
678 \renewcommand\glossaryname{\listsymbolname}%
679 \@input@{\jobname.los}}

\makelosymbols
680 \def\makelosymbols{%
681     \newwrite\@losfile
682     \immediate\openout\@losfile=\jobname.syx
683     \def\symbf{\@bsphack\beginngroup
684         \@sanitize
685         \@wrlos}\typeout
686     {Writing index of symbols file \jobname.syx}%
687     \let\makelosymbols\@empty
688 }
689 \@onlypreamble\makelosymbols

```

```

690 \AtBeginDocument{%
691 \ifpackageloaded{hyperref}{%
692   \def\@wrlos#1#2{%
693     \protected@write\@losfile{%
694       {\string\indexentry{[#1] #2|hyperpage}{\thepage}}%
695     \endgroup
696     \@esphack}}{%
697   \def\@wrlos#1#2{%
698     \protected@write\@losfile{%
699       {\string\indexentry{[#1] #2}{\thepage}}%
700     \endgroup
701     \@esphack}}}

```

\printloabbreviations

```

702 \newcommand\printloabbreviations{%
703 \renewcommand\glossaryname{\listabbreviationname}%
704 \@input@{\jobname.lab}}

```

\makeloabbreviations

```

705 \def\makeloabbreviations{%
706   \newwrite\@labfile
707   \immediate\openout\@labfile=\jobname.abx
708   \def\abbrev{\@bsphack\begingroup
709     \@sanitize
710     \@wrlab}\typeout
711     {Writing index of abbreviations file \jobname.abx}%
712   \let\makeloabbreviations\@empty
713 }
714 \@onlypreamble\makeloabbreviations

715 \AtBeginDocument{%
716 \ifpackageloaded{hyperref}{%
717   \def\@wrlab#1#2{%
718     \protected@write\@labfile{%
719       {\string\indexentry{[#1] #2|hyperpage}{\thepage}}%
720     \endgroup
721     \@esphack}}{%
722   \def\@wrlab#1#2{%
723     \protected@write\@labfile{%
724       {\string\indexentry{[#1] #2}{\arabic{page}}}%
725     \endgroup
726     \@esphack}}}

727 % Some macros used to generate cataloging information.
728 \AtBeginDocument{%
729   \ltx@ifpackageloaded{hyperref}{
730     \def\coppe@bibEnd{%
731       \immediate\write\@auxout{%
732         \string\newlabel{bib:end}{\arabic{page}}{page.\arabic{page}}}%
733     \def\coppe@bibBegin{%
734       \immediate\write\@auxout{%
735         \string\newlabel{bib:begin}{\arabic{page}}{page.\arabic{page}}}%
736     \def\coppe@mainBegin{%
737       \immediate\write\@auxout{%
738         \string\newlabel{front:pageno}{\Roman{page}}{page.\roman{page}}}%

```

```

739 \def\coppe@hasLof{%
740 \immediate\write\@auxout{%
741 \string\newlabel{cat:lofflag}{\{:\sim il.;\}\{page.\roman{page}\}\}}}%
742 }{%
743 \def\coppe@bibEnd{%
744 \immediate\write\@auxout{%
745 \string\newlabel{bib:end}{\{\}\{arabic{page}\}\}}}%
746 \def\coppe@bibBegin{%
747 \immediate\write\@auxout{%
748 \string\newlabel{bib:begin}{\{\}\{arabic{page}\}\}}}%
749 \def\coppe@mainBegin{%
750 \immediate\write\@auxout{%
751 \string\newlabel{front:pageno}{\{\}\{Roman{page}\}\}}}%
752 \def\coppe@hasLof{%
753 \immediate\write\@auxout{%
754 \string\newlabel{cat:lofflag}{\{:\sim il.;\}\}}}%
755 }%
756 }
757 \newdimen\bibindent%
758 \setlength\bibindent{1.5em}%
759 \renewenvironment{thebibliography}[1]%
760 {\onehalfspacing%
761 \chapter*{\bibname}%
762 \addcontentsline{toc}{chapter}{\bibname}%
763 \coppe@bibBegin
764 \list{\@biblabel{\@arabic\c@enumiv}}%
765 {\setlength{\labelwidth}{0ex}%
766 \setlength{\leftmargin}{9.0ex}%
767 \setlength{\itemindent}{-9.0ex}%
768 \advance\leftmargin\labelsep%
769 \@openbib@code%
770 \usecounter{enumiv}%
771 \let\p@enumiv\@empty%
772 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
773 \sloppy%
774 \clubpenalty4000%
775 \@clubpenalty \clubpenalty%
776 \widowpenalty4000%
777 \sfcode'\.\@m}%
778 {\def\@noitemerr%
779 {\@latex@warning{Empty 'thebibliography' environment}}%
780 \coppe@bibEnd
781 \endlist}

```

longquote

```

782 \newlength{\recuolongquote}%
783 \setlength{\recuolongquote}{4cm}%
784 \newenvironment*{longquote}[1][default]{%
785 \list{}}%
786 \footnotesize%
787 \addtolength{\leftskip}{\recuolongquote}%
788 \item[]%
789 \singlespacing%
790 \ifthenelse{\not\equal{#1}{default}}{\itshape\selectlanguage{#1}}{}%

```

```

791 }\endlist}%

792 \newenvironment{theglossary}{%
793   \if@twocolumn%
794     \@restonecoltrue\onecolumn%
795   \else%
796     \@restonecolfalse%
797   \fi%
798   \@mkboth{\MakeUppercase\glossaryname}%
799   {\MakeUppercase\glossaryname}%
800   \chapter*{\glossaryname}%
801   \addcontentsline{toc}{chapter}{\glossaryname}
802   \list{}
803   {\setlength{\listparindent}{0in}%
804     \setlength{\labelwidth}{1.0in}%
805     \setlength{\leftmargin}{1.5in}%
806     \setlength{\labelsep}{0.5in}%
807     \setlength{\itemindent}{0in}}%
808   \sloppy}%
809   {\if@restonecol\twocolumn\fi}
810 \endlist}
811 %
812 \renewenvironment{theindex}{%
813   \if@twocolumn
814     \@restonecolfalse
815   \else
816     \@restonecoltrue
817   \fi
818   \twocolumn[\@makeschapterhead{\indexname}]%
819   \@mkboth{\MakeUppercase\indexname}%
820   {\MakeUppercase\indexname}%
821   \thispagestyle{plain}\parindent\z@
822   \addcontentsline{toc}{chapter}{\indexname}
823   \parskip\z@ \@plus .3\p@\relax
824   \columnseprule \z@
825   \columnsep 35\p@
826   \let\item\@idxitem}
827   {\if@restonecol\onecolumn\else\clearpage\fi}
828 \if@english
829   \newcommand\listabbreviationname{List of Abbreviations}
830   \newcommand\listsymbolname{List of Symbols}
831   \newcommand\glossaryname{Glossary}
832 \else
833   \newcommand\listabbreviationname{Lista de Abreviaturas}
834   \newcommand\listsymbolname{Lista de S{\` i}mbolos}
835   \newcommand\glossaryname{Gloss{\` a}rio}
836 \fi
837 %
838 \newcommand\local@advisorstring{Orientador}
839 \newcommand\foreign@advisorstring{Advisor}
840 \ifthenelse{\boolean{maledoc}}{%
841   \newcommand\local@approvedname{Examinado por}%
842 }{%
843   \newcommand\local@approvedname{Examinada por}%

```

```

844 }
845 \newcommand\local@universityname{Universidade Federal do Rio de Janeiro}
846 \newcommand\local@deptstring{Programa}
847 \newcommand\foreign@deptstring{Department}
848 \newcommand\local@cityname{Rio de Janeiro}
849 \newcommand\local@statename{RJ}
850 \newcommand\local@countryname{Brasil}
851 %
852 \newcommand\frontcover@maintext{
853   \sloppy\nohyphens{\local@doctype\ de \@degreename\
854   \ifthenelse{\boolean{maledoc}}{apresentado}{apresentada}
855   ao Programa de P{\ ' o}s-gradua{\c c}{\~ a}o em \local@deptname,
856   COPPE, da \local@universityname, como parte dos requisitos
857   necess{\ ' a}rios {\ ' a} obten{\c c}{\~ a}o do t{\ ' i}tulo de
858   \local@degname\ em \local@deptname.}
859 }
860 %
861 \newcommand\frontpage@maintext{
862   \noindent {\MakeUppercase\local@doctype}
863   \ifthenelse{\boolean{maledoc}}{SUBMETIDO}{SUBMETIDA}
864   \sloppy\nohyphens{AO CORPO DOCENTE DO INSTITUTO ALBERTO LUIZ COIMBRA
865   DE P{\ ' O}S-GRADUA{\c C}{\~ A}O E PESQUISA DE ENGENHARIA DA
866   UNIVERSIDADE FEDERAL DO RIO DE JANEIRO COMO PARTE DOS REQUISITOS
867   NECESS{\ ' A}RIOS PARA A OBTEN{\c C}{\~ A}O DO GRAU DE
868   {\MakeUppercase\local@degname} EM CI{\^E}NCIAS EM
869   {\MakeUppercase\local@deptname.\par}}%
870 }
871 %
872 \newcommand\frontpage@bottomtext{%
873   \begin{center}
874   {\MakeUppercase{\local@cityname, \local@statename\ -- \local@countryname}}\par
875   {\MakeUppercase\local@monthname\ DE \number\year}
876   \end{center}%
877 }
878 %
879 \newcommand\abstract@toptext{%
880   \noindent Resumo \ifthenelse{\boolean{maledoc}}{do}{da}
881   \local@doctype\ \ifthenelse{\boolean{maledoc}}{apresentado}{apresentada}
882   \sloppy\nohyphens{\ ' a} COPPE/UFRJ como parte dos requisitos
883   necess{\ ' a}rios para a obten{\c c}{\~ a}o do grau de
884   \local@degname\ em Ci{\^ e}ncias (\@degree)}
885 }
886 \newcommand\foreignabstract@toptext{%
887   \noindent \sloppy\nohyphens{Abstract of \foreign@doctype\ presented to
888   COPPE/UFRJ as a partial fulfillment of the requirements for the
889   degree of \foreign@degname\ of Science (\@degree)}
890 }
891 %
892 \end{class}
893 \glossary
894 actual '='
895 quote '!'
896 level '>'

```

```

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898 lethead_flag 0
899 headings_flag 0
900 preamble
901 "\n\\begin{theglossary}\n  \\makeatletter"
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903 "\n  \\end{theglossary}\n"
904 </glossary>

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Change History

v0.0	foreignabstract: Changed from macro to environment. 19
General: Creation Date. 1	
v0.1	v1.0
General: Documentation: bibliography fixed, title translation. 1	General: First COPPETeX release. . 1
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v0.2	v2.1
General: Unification of the code for the list of symbols and abbreviations. 1	<code>\advisor:</code> Advisors, co-advisors, co-co-advisors, etc., all of them are simply considered advisors. 11
v0.3	General: COPPETeX release 2.1: Matching the new rules. 1
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General: Added 'draft' option. . . . 1	v3.0
v0.4	<code>\department:</code> Added new course on Nanotechnology. 11
General: Beta documentation. . . . 1	<code>\examiner:</code> Examiners expansion without degree. 11
v0.5	General: Added support for monographs in English. 10
<code>\backmatter:</code> Added mainmatter pages counter. 13	New approval page layout. . . . 15
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