# The ebsthesis document class
# for use with LaTeX 2ε[*]

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**Abstract**

The ebsthesis class facilitates the production of camera-ready manuscripts in conformance with the guidelines of Gabler Verlag and typographical rules established by European Business School.

## Contents

## 1 User Documentation

This final release is incompatible with earlier versions. I apologize for not providing decent documentation.

## 2 Code

```
1 ⟨∗ebsthesis⟩
2 \NeedsTeXFormat{LaTeX2e}[2003/12/01]
3 \ProvidesClass{ebsthesis}%
4                [2006/12/31 v1.0 EBS Thesis Class (PNB)]
5 \newif\if@gabler
6 \DeclareOption{gabler}{\@gablertrue}
7 \DeclareOption{grundregeln}{\@gablerfalse}
8 \newif\if@singlespacing
9 \DeclareOption{singlespacing}{\@singlespacingtrue}
```

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[*]This file has version number v1.0, last revised 2006/12/31. I am grateful for helpful comments I received from André Kudra and others.

```latex
10 \DeclareOption{onehalfspacing}{\@singlespacingfalse}
11 \newif\if@headrules
12 \DeclareOption{headrules}{\@headrulestrue}
13 \DeclareOption{noheadrules}{\@headrulesfalse}
14 \newif\if@tools
15 \DeclareOption{tools}{\@toolstrue}
16 \DeclareOption{notools}{\@toolsfalse}
17 \newif\if@fancyfoot
18 \DeclareOption{fancyfoot}{\@fancyfoottrue}
19 \DeclareOption{nofancyfoot}{\@fancyfootfalse}
20 \newif\if@indentcaptions
21 \DeclareOption{indentcaptions}{\@indentcaptionstrue}
22 \DeclareOption{noindentcaptions}{\@indentcaptionsfalse}
23 \newif\if@mathematica
24 \DeclareOption{mathematica}{\@mathematicatrue}
25 \DeclareOption{nomathematica}{\@mathematicafalse}
26 \DeclareOption{8pt}{\OptionNotUsed}
27 \DeclareOption{9pt}{\OptionNotUsed}
28 \DeclareOption{10pt}{\OptionNotUsed}
29 \DeclareOption{11pt}{\OptionNotUsed}
30 \DeclareOption{12pt}{\OptionNotUsed}
31 \DeclareOption{14pt}{\OptionNotUsed}
32 \DeclareOption{17pt}{\OptionNotUsed}
33 \DeclareOption{20pt}{\OptionNotUsed}
34 \DeclareOption{oneside}{\OptionNotUsed}
35 \DeclareOption{twoside}{\OptionNotUsed}
36 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{extbook}}
37 \ExecuteOptions{%
38   grundregeln,%
39   onehalfspacing,%
40   noheadrules,%
41   notools,%
42   nofancyfoot,%
43   noindentcaptions,%
44   nomathematica%
45 }
46 \ProcessOptions\relax
47 \if@gabler
48   \PassOptionsToClass{a5paper,9pt,twoside}{extbook}
49 \else
50   \PassOptionsToClass{a4paper,12pt,oneside}{extbook}
51 \fi
52 \LoadClass{extbook}[1999/01/07]
53 % Modified generic headings and names
54 \renewcommand{\contentsname}{Table of Contents}
55 \renewcommand{\figurename}{Fig.}
56 \renewcommand{\tablename}{Table}
57 % New generic headings and names
58 \newcommand{\abkuerzungsverzeichnisname}{List of Abbreviations}
59 \newcommand{\appendicesname}{Appendices}
```

```latex
60 \newcommand{\geleitwortname}{Foreword}
61 \newcommand{\inhaltsuebersichtname}{Summary of Contents}
62 \newcommand{\listappendixname}{List of Appendices}
63 \newcommand{\symbolverzeichnisname}{List of Symbols}
64 \newcommand{\vorwortname}{Preface}
65 % Babel support
66 \AtBeginDocument{%
67   \@ifpackageloaded{babel}{%
68     \addto{\captionsenglish}{%
69       \renewcommand{\contentsname}{Table of Contents}%
70       \renewcommand{\figurename}{Fig.}%
71       \renewcommand{\tablename}{Table}%
72     }%
73     \addto{\extrasenglish}{%
74       \renewcommand{\abkuerzungsverzeichnisname}{List of Abbreviations}%
75       \renewcommand{\appendicesname}{Appendices}%
76       \renewcommand{\geleitwortname}{Foreword}%
77       \renewcommand{\inhaltsuebersichtname}{Summary of Contents}%
78       \renewcommand{\listappendixname}{List of Appendices}%
79       \renewcommand{\symbolverzeichnisname}{List of Symbols}%
80       \renewcommand{\vorwortname}{Preface}%
81     }%
82     \addto{\captionsngerman}{%
83       \renewcommand{\figurename}{Abb.}%
84       \renewcommand{\tablename}{Tab.}%
85     }%
86     \addto{\extrasngerman}{%
87       \renewcommand{\abkuerzungsverzeichnisname}{Abk\"urzungsverzeichnis}%
88       \renewcommand{\appendicesname}{Anhang}%
89       \renewcommand{\geleitwortname}{Geleitwort}%
90       \renewcommand{\inhaltsuebersichtname}{Inhalts\"ubersicht}%
91       \renewcommand{\listappendixname}{Verzeichnis des Anhangs}%
92       \renewcommand{\symbolverzeichnisname}{Symbolverzeichnis}%
93       \renewcommand{\vorwortname}{Vorwort}%
94     }%
95   }{\relax}%
96 }
97 % New paper format and margins
98 \RequirePackage{geometry}[2002/07/08]
99 \if@gabler
100   \geometry{%
101     totalwidth=11.5cm,%
102     totalheight=18cm,%
103     includeheadfoot,%
104     centering,%
105     mag=1414
106   }
107 \else
108   \geometry{%
109     left=4cm,%
```

```
110      right=2cm,%
111      top=3cm,%
112      bottom=2cm,%
113      headsep=1cm,%
114      footnotesep=\baselineskip
115    }
116 \fi
117 % New linespacing
118 \RequirePackage[nodisplayskipstretch]{setspace}[2000/12/01]
119 \if@gabler
120    \renewcommand{\singlespacing}{\setstretch{1.1}%
121      \vskip \baselineskip}
122    \renewcommand{\onehalfspacing}{\setstretch{1.3}%
123      \vskip \baselineskip}
124    \newcommand*{\ebsindent}{\relax}
125 \else
126    \renewcommand{\singlespacing}{\setstretch{1.0}%
127      \vskip \baselineskip}
128    \renewcommand{\onehalfspacing}{\setstretch{1.5}%
129      \vskip \baselineskip}
130    \newcommand*{\ebsindent}{\addvspace{\medskipamount}\noindent}
131 \fi
132 \if@singlespacing
133    \singlespacing
134 \else
135    \onehalfspacing
136 \fi
137 % New figures and tables
138 \RequirePackage{rotfloat}[2004/01/04]
139 \RequirePackage{caption}[2004/07/16]
140 \DeclareCaptionLabelSeparator{period-enspace}{.\enspace}
141 \DeclareCaptionLabelFormat{tight}{#1\,#2}
142 \captionsetup{%
143 %    margin=0.05\columnwidth,
144    font=small,
145    labelfont=bf,%
146    labelsep=period-enspace%
147 }
148 \captionsetup[figure]{%
149    labelformat=tight%
150 }
151 \captionsetup[table]{%
152    position=top%
153 }
154 \if@indentcaptions
155    \captionsetup{%
156      format=hang%
157    }
158 \fi
159 % New footnotes
```

```
160 \RequirePackage{ragged2e}[2003/03/25]
161 \RequirePackage[ragged,%
162               bottom,%
163               hang,%
164               splitrule,%
165               stable,%
166               multiple]{footmisc}[2004/05/02]
167 \renewcommand{\mpfootnoterule}{\relax}
168 \RequirePackage{remreset}
169 \@removefromreset{footnote}{chapter}
170 \if@fancyfoot
171   \long\def\@makefntext#1{%
172     \bgroup
173       \setbox\@tempboxa\hbox{%
174       \ifdim\footnotemargin>0pt
175         \hb@xt@\footnotemargin{\rlap\normalfont%
176           \@thefnmark.\hss}%
177       \else
178         \rlap\normalfont\@thefnmark.
179       \fi
180     }%
181     \leftmargin\wd\@tempboxa
182     \rightmargin\z@
183     \linewidth \columnwidth
184     \advance \linewidth -\leftmargin
185     \parshape \@ne \leftmargin \linewidth
186     \footnotesize
187     \parskip\hangfootparskip\relax
188     \parindent\hangfootparindent\relax
189     \@setpar{{\@@par}}%
190     \leavevmode
191     \llap{\box\@tempboxa}%
192     \footnotelayout#1%
193     \par\egroup%
194   }
195 \fi
196 % New headings
197 \RequirePackage[nobottomtitles*,
198               newparttoc,
199               clearempty,
200               toctitles,
201               newlinetospace,
202               pagestyles]{titlesec}[2005/01/22]
203 \RequirePackage{calc}[1998/07/07]
204 \titleformat{\part}[display]{%
205   \thispagestyle{empty}\normalfont\huge\mdseries\singlespacing\filright}{%
206   \bfseries\partname~\thepart}{0pt}{}
207 \titlespacing*{\part}{%
208   0pt}{-\headheight-\headsep}{1.15ex plus .1ex}
209 \titleformat{\chapter}{%
```

```
210    \normalfont\LARGE\bfseries\singlespacing\filright}{%
211    \thechapter}{1em}{}
212 \titlespacing*{\chapter}{%
213    0pt}{-\headheight-\headsep}{1.15ex plus .1ex}
214 \titleformat{\section}{%
215    \normalfont\Large\bfseries\singlespacing\filright}{%
216    \thesection}{1em}{}
217 \titlespacing*{\section}{%
218    0pt}{1.75ex plus .5ex minus .1ex}{1.15ex plus .1ex}
219 \titleformat{\subsection}{%
220    \normalfont\large\bfseries\singlespacing\filright}{%
221    \thesubsection}{1em}{}
222 \titlespacing*{\subsection}{%
223    0pt}{1.625ex plus .5ex minus .1ex}{.75ex plus .1ex}
224 \titleformat{\subsubsection}{%
225    \normalfont\normalsize\bfseries\filright}{%
226    \thesubsubsection}{1em}{}
227 \titlespacing*{\subsubsection}{%
228    0pt}{1.625ex plus .5ex minus .1ex}{.75ex plus .1ex}
229 \titleformat{\paragraph}{%
230    \normalfont\normalsize\mdseries\itshape\filright}{%
231    \upshape\theparagraph}{1em}{}
232 \titlespacing*{\paragraph}{%
233    0pt}{1.625ex plus .5ex minus .1ex}{.75ex plus .1ex}
234 \titleformat{\subparagraph}{%
235    \normalfont\normalsize\mdseries\itshape\filright}{%
236    \upshape\thesubparagraph.}{1em}{}
237 \titlespacing*{\subparagraph}{%
238    0pt}{1.625ex plus .5ex minus .1ex}{.75ex plus .1ex}
239 \renewcommand{\thesubparagraph}{\alph{subparagraph}}
240 \titleclass{\subsubparagraph}{straight}[\subparagraph]
241 \newcounter{subsubparagraph}[subparagraph]
242 \renewcommand{\thesubsubparagraph}{\roman{subsubparagraph}}
243 \titleformat{\subsubparagraph}{%
244    \normalfont\normalsize\mdseries\filright}{%
245    \thesubsubparagraph.}{1em}{}
246 \titlespacing*{\subsubparagraph}{%
247    0pt}{1.625ex plus .5ex minus .1ex}{.75ex plus .1ex}
248 \setcounter{secnumdepth}{6}
249 % New headers and footers
250 \if@headrules
251    \newlength{\headrulewidth}
252    \setlength{\headrulewidth}{0.05em}
253 \fi
254 \renewpagestyle{plain}[\small]{%
255    \if@gabler
256      \sethead[][][]%
257              {}{}{}
258      \setfoot[\usepage][][]%
259              {}{}{\usepage}
```

```
260    \else
261      \if@headrules
262        \headrule
263        \setheadrule{\headrulewidth}
264      \fi
265      \sethead[][--\,\usepage\,--][]%
266              {}{--\,\usepage\,--}{}
267      \setfoot[][][]%
268              {}{}{}
269    \fi%
270 }
271 \newpagestyle{ebs}[\small]{%
272    \if@headrules
273      \headrule
274      \setheadrule{\headrulewidth}
275    \fi
276    \if@gabler
277      \sethead[\usepage][][\ifthechapter{\thechapter\quad}{}\textit{\chaptertitle}]%
278              {\ifthesection{\thesection\quad}{}\textit{\sectiontitle}}{}{\usepage}
279    \else
280      \sethead[][--\,\usepage\,--][]%
281              {}{--\,\usepage\,--}{}
282    \fi
283    \setfoot[][][]%
284            {}{}{}%
285 }
286 \pagestyle{ebs}
287 \RequirePackage{titletoc}[2005/01/22]
288 % New part TOC entry
289 \titlecontents{part}[0pt]{%
290    \addvspace{10pt}\filright}{%
291    \textbf{\partname\space\textsc{\MakeLowercase{\thecontentslabel}}}:\enspace}}{}{}
292 \newlength{\digitlength}
293 \settowidth{\digitlength}{9.}
294 \newlength{\pnumwidth@roman}
295 \settowidth{\pnumwidth@roman}{XVIII}
296 \newlength{\pnumwidth@arabic}
297 \settowidth{\pnumwidth@arabic}{999}
298 \addtolength{\pnumwidth@arabic}{0.25em}
299 \contentsmargin{\pnumwidth@arabic}
300 \titlecontents{chapter}[2\digitlength]{\addvspace{5pt}\bfseries\contentsmargin{\pnumwidth@roman
301 \dottedcontents{section}[5\digitlength]{}{3\digitlength}{0.75em}
302 \dottedcontents{subsection}[9\digitlength]{}{4\digitlength}{0.75em}
303 \dottedcontents{subsubsection}[14\digitlength]{}{5\digitlength}{0.75em}
304 \dottedcontents{paragraph}[20\digitlength]{}{6\digitlength}{0.75em}
305 \dottedcontents{subparagraph}[27\digitlength]{}{7\digitlength}{0.75em}
306 \dottedcontents{subsubparagraph}[35\digitlength]{}{8\digitlength}{0.75em}
307 % Appendix
308 \newcommand{\listofappendices}{%
309    \section*{\listappendixname\sectionmark{\listappendixname}}
```

```latex
310    \printcontents[appendix]{1}{1}{\setcounter{tocdepth}{4}}
311    \titlecontents{section}[2\digitlength]{\addvspace{5pt}\bfseries\contentsmargin{\pnumwidth@rom
312    \dottedcontents{subsection}[5\digitlength]{}{3\digitlength}{0.75em}
313    \dottedcontents{subsubsection}[9\digitlength]{}{4\digitlength}{0.75em}
314    \dottedcontents{paragraph}[14\digitlength]{}{5\digitlength}{0.75em}
315    \dottedcontents{subparagraph}[20\digitlength]{}{6\digitlength}{0.75em}
316    \dottedcontents{subsubparagraph}[27\digitlength]{}{7\digitlength}{0.75em}
317 }
318 \renewcommand{\appendix}{%
319    \ClassWarningNoLine{ebsthesis}{%
320      Use \noexpand\startappendices and \noexpand\stopappendices instead of \noexpand\appendix}
321 }
322 \newcommand{\startappendices}{%
323    \ttl@toclabelfalse
324    \ttl@setifthe{chapter}
325    \setcounter{chapter}{0}
326    \setcounter{section}{0}
327    \renewcommand{\chaptername}{\appendixname}
328    \renewcommand{\thesection}{\Alph{section}}
329    \numberwithin{equation}{section}
330    \numberwithin{figure}{section}
331    \numberwithin{table}{section}
332    \numberwithin{thm}{section}
333    \numberwithin{cor}{section}
334    \numberwithin{defn}{section}
335    \numberwithin{conj}{section}
336    \numberwithin{exmp}{section}
337    \chapter*{\appendicesname\chaptermark{\appendicesname}}
338    \addcontentsline{toc}{chapter}{\appendicesname}
339    \titleformat{\section}{%
340      \normalfont\large\bfseries}{%
341      \chaptertitlename~\thesection}{1em}{}
342    \titlespacing*{\section}{%
343      0pt}{1.625ex plus .5ex minus .1ex}{.75ex plus .1ex}
344    \titleformat{\subsection}{%
345      \normalfont\normalsize\bfseries}{%
346      \thesubsection}{1em}{}
347    \titlespacing*{\subsection}{%
348      0pt}{1.625ex plus .5ex minus .1ex}{.75ex plus .1ex}
349    \titleformat{\subsubsection}{%
350      \normalfont\normalsize\mdseries\itshape}{%
351      \upshape\thesubsubsection}{1em}{}
352    \titlespacing*{\subsubsection}{%
353      0pt}{1.625ex plus .5ex minus .1ex}{.75ex plus .1ex}
354    \stopcontents[main]%
355    \resumecontents[appendix]%
356    \stoplist[main]{lof}%
357    \resumelist[appendix]{lof}%
358    \stoplist[main]{lot}%
359    \resumelist[appendix]{lot}%
```

```latex
360 }
361 \newcommand{\stopappendices}{%
362   \stopcontents[appendix]%
363   \resumecontents[main]%
364 }
365 % New titlepage
366 \newcommand{\thegrad}{Doctor rerum politicarum}
367 \newcommand*{\grad}[1]{%
368   \renewcommand{\thegrad}{#1}}
369 \newcommand{\thetitel}{%
370   \ClassWarningNoLine{ebsthesis}{%
371     Kein \noexpand\titel angegeben}}
372 \newcommand*{\titel}[1]{%
373   \renewcommand{\thetitel}{#1}}
374 \newcommand{\theuntertitel}{}
375 \newcommand*{\untertitel}[1]{%
376   \renewcommand{\theuntertitel}{#1}}
377 \newcommand{\thefachbereich}{Betriebswirtschaftslehre}
378 \newcommand*{\fachbereich}[1]{%
379   \renewcommand{\thefachbereich}{#1}}
380 \newcommand{\thehochschule}{%
381   European Business School}
382 \newcommand*{\hochschule}[1]{%
383   \renewcommand{\thehochschule}{#1}}
384 \newcommand{\thekandidat}{%
385   \ClassWarningNoLine{ebsthesis}{%
386     Kein \noexpand\kandidat angegeben}}
387 \newcommand*{\kandidat}[1]{%
388   \renewcommand{\thekandidat}{#1}}
389 \renewcommand*{\author}[1]{%
390   \renewcommand{\thekandidat}{#1}}
391 \newcommand{\thegeburtsort}{%
392   \ClassWarningNoLine{ebsthesis}{%
393     Kein \noexpand\geburtsort angegeben}}
394 \newcommand*{\geburtsort}[1]{%
395   \renewcommand{\thegeburtsort}{#1}}
396 \newcommand{\thereferenten}{%
397   \ClassWarningNoLine{ebsthesis}{%
398     Keine \noexpand\referenten angegeben}}
399 \newcommand*{\referenten}[1]{%
400   \renewcommand{\thereferenten}{#1}}
401 \newcommand{\theeinreichungstermin}{%
402   \ClassWarningNoLine{ebsthesis}{%
403     Kein \noexpand\einreichungstermin angegeben}}
404 \newcommand*{\einreichungstermin}[1]{%
405   \renewcommand{\theeinreichungstermin}{#1}}
406 \newcommand{\thepruefungstermin}{%
407   \ClassWarningNoLine{ebsthesis}{%
408     Kein \noexpand\pruefungstermin angegeben}}
409 \newcommand*{\pruefungstermin}[1]{%
```

```latex
410    \renewcommand{\thepruefungstermin}{#1}}
411 \newcommand{\thehochschulsignatur}{1540}
412 \newcommand*{\hochschulsignatur}[1]{%
413    \renewcommand{\thehochschulsignatur}{#1}}
414 \RequirePackage{array}[2003/12/17]
415 \renewcommand{\maketitle}{%
416    \renewcommand{\and}{\tabularnewline &}
417    \begin{titlepage}
418      \begin{singlespacing}
419        \begin{center}
420          {\Large\bfseries Dissertation}\\
421          zur Erlangung des akademischen Grades\\
422          \thegrad\par
423          \vspace{\stretch{1000}}
424          {\LARGE\bfseries\thetitel\par\medskip\Large\mdseries\theuntertitel\par}
425          \vspace{\stretch{1618}}
426          \begin{tabular}{@{}>{\bfseries}ll@{}}
427            Fachbereich:&\thefachbereich\tabularnewline
428            Hochschule:&\thehochschule\tabularnewline
429            Hochschulsignatur:&\thehochschulsignatur\tabularnewline
430            Kandidat:&\thekandidat\tabularnewline
431            Geburtsort:&\thegeburtsort\tabularnewline
432            Referenten:&\thereferenten\tabularnewline
433            Einreichungstermin:&\theeinreichungstermin\tabularnewline
434            Pr\"ufungstermin:&\thepruefungstermin\tabularnewline
435          \end{tabular}
436        \end{center}
437      \end{singlespacing}
438    \end{titlepage}
439    \startcontents[main]%
440    \startcontents[appendix]%
441    \stopcontents[appendix]%
442    \startlist[main]{lof}%
443    \startlist[appendix]{lof}%
444    \stoplist[appendix]{lof}%
445    \startlist[main]{lot}%
446    \startlist[appendix]{lot}%
447    \stoplist[appendix]{lot}%
448 }
449 % Summary and table of contents
450 \newcommand{\inhaltsuebersicht}{%
451    \chapter*{\inhaltsuebersichtname\chaptermark{\inhaltsuebersichtname}}
452    \printcontents[main]{0}{-1}{\setcounter{tocdepth}{1}}%
453 }
454 \renewcommand{\tableofcontents}{%
455    \chapter*{\contentsname\chaptermark{\contentsname}}
456    \printcontents[main]{0}{-1}{\setcounter{tocdepth}{4}}%
457 }
458 % Page composition
459 \setcounter{topnumber}{3}
```

```latex
460 \setcounter{bottomnumber}{2}
461 \setcounter{totalnumber}{4}
462 \renewcommand{\topfraction}{0.85}
463 \renewcommand{\bottomfraction}{0.5}
464 \renewcommand{\textfraction}{0.15}
465 \renewcommand{\floatpagefraction}{0.7}
466 \interfootnotelinepenalty=10000
467 \clubpenalty=10000
468 \widowpenalty=10000
469 \displaywidowpenalty=10000
470 \renewcommand{\frontmatter}{%
471   \cleardoublepage
472   \@mainmatterfalse
473   \pagenumbering{Roman}%
474 }
475 % \newcounter{frontmatterpages}
476 \renewcommand{\mainmatter}{%
477   \cleardoublepage
478   \@mainmattertrue
479 %   \setcounter{frontmatterpages}{\value{page}}%
480   \pagenumbering{arabic}%
481 }
482 \renewcommand{\backmatter}{%
483   \if@openright
484     \cleardoublepage
485   \else
486     \clearpage
487   \fi
488   \@mainmatterfalse
489 %   \pagenumbering{Roman}%
490 %   \setcounter{page}{\value{frontmatterpages}}%
491 }
492 \RequirePackage[nottoc]{tocbibind}[2003/03/13]
493 % Foreword and Preface
494 \newcommand{\geleitwort}{%
495   \chapter*{\geleitwortname\chaptermark{\geleitwortname}}%
496 }
497 \newcommand{\vorwort}{%
498   \chapter*{\vorwortname\chaptermark{\vorwortname}}%
499 }
500 % List of Symbols
501 \RequirePackage[noprefix]{nomencl}[2005/03/31]
502 \RequirePackage{mdwlist}[1996/05/02]
503 \newcommand{\symbolverzeichnis}{\printnomenclature}
504 \renewcommand{\nomname}{\symbolverzeichnisname}
505 \newlength{\nomindent}
506 \setlength{\nomindent}{3em}
507 \def\thenomenclature{%
508   \chapter*{\nomname\chaptermark{\nomname}}
509   \addcontentsline{toc}{chapter}{\nomname}
```

```latex
510    \nompreamble
511    \addvspace{10pt}
512    \begin{basedescript}{%
513        \desclabelwidth{\nomindent}
514        \desclabelstyle{\nextlinelabel}
515        \renewcommand*{\makelabel}[1]{##1}
516        \parskip\z@\itemsep\z@%
517      }%
518 }
519 \def\endthenomenclature{%
520    \end{basedescript}
521    \nompostamble%
522 }
523 \makenomenclature
524 % List of Abbreviations
525 \newcommand{\abkuerzungsverzeichnis}{%
526    \chapter*{\abkuerzungsverzeichnisname\chaptermark{%
527        \abkuerzungsverzeichnisname}}
528    \addcontentsline{toc}{chapter}{\abkuerzungsverzeichnisname}
529    \addvspace{10pt}%
530 }
531 % \RequirePackage[printonlyused]{acronym}[2004/11/10]
532 \RequirePackage{acronym}[2004/11/10]
533 \renewcommand*{\acsfont}[1]{\textsc{\MakeLowercase{#1}}}
534 \newlength{\acroindent}
535 \setlength{\acroindent}{6em}
536 \renewenvironment{acronym}[1][1]{%
537    \providecommand*{\acro}{\AC@acro}%
538    \long\def\acroextra##1{##1}%
539    \ifx1#1
540        \global\expandafter\let\csname ac@des@mark\endcsname\AC@used
541        \begin{basedescript}{%
542            \desclabelwidth{\acroindent}
543            \desclabelstyle{\nextlinelabel}
544            \renewcommand*{\makelabel}[1]{##1}
545            \parskip\z@\itemsep\z@%
546          }
547    \else
548        \begin{AC@deflist}{#1}%
549    \fi%
550    }%
551    {%
552    \ifx\AC@populated\AC@used\else
553        \item[]\relax
554    \fi
555    \expandafter\ifx\csname ac@des@mark\endcsname\AC@used
556        \end{basedescript}%
557    \else
558        \end{AC@deflist}%
559    \fi}
```

```latex
560 % Advanced mathematics functions and equation alignment
561 \RequirePackage[tbtags]{amsmath}[2000/07/18]
562 \RequirePackage[all]{onlyamsmath}[2001/10/04]
563 % Scaling factor for graphics
564 \if@gabler
565   \newcommand{\graphicsmag}{1.0000}
566   \newcommand{\smallgraphicsmag}{0.7500}
567   \newcommand{\tinygraphicsmag}{0.5625}
568 \else
569   \newcommand{\graphicsmag}{1.3333}
570   \newcommand{\smallgraphicsmag}{1.0000}
571   \newcommand{\tinygraphicsmag}{0.7500}
572 \fi
573 % Comments
574 \RequirePackage{comment}
575 \if@gabler
576   \includecomment{gabler}
577   \excludecomment{grundregeln}
578 \else
579   \includecomment{grundregeln}
580   \excludecomment{gabler}
581 \fi
582 % Support for Mathematica fonts
583 \if@mathematica
584 % We are using Mathematica fonts
585   \RequirePackage{wrisym}[1999/04/20]
586   \newcommand{\D}{\DifferentialD}
587 \else
588 % We are using Computer Modern fonts
589   \RequirePackage{amssymb}[2002/01/22]
590   \RequirePackage{dsfont}[1995/08/01]
591   \renewcommand{\mathbb}[1]{\mathds{#1}}
592   \DeclareMathSymbol{\D}{\mathord}{operators}{`d}
593   \newcommand{\E}{\mathrm{e}}
594   \newcommand{\I}{\mathrm{i}}
595   \newcommand{\MathLogo}{\emph{Mathematica}}
596 \fi
597 \if@tools
598   % Statistics
599   \DeclareRobustCommand\expect{%
600     \@ifnextchar[{\ebs@expect}{\ebs@expect[]}%
601   }
602   \def\ebs@expectop{\mathbf{E}}
603   \def\ebs@expect{%
604     \@ifnextchar[{\ebs@@expect}{\ebs@@expect[]}%
605   }
606   \def\ebs@@expect[#1]{%
607     \@ifnextchar[{\ebs@@@expect[#1]}{\ebs@@@expect[][#1]}%
608   }
609   \def\ebs@@@expect[#1][#2]#3{%
```

```
610        \@expectx[#1][#2]{#3}%
611    }
612    \def\@expectx[#1][#2]#3{%
613      \ifx\relax#1\relax
614        \ifx\relax#2\relax
615          \ebs@expectop\!\left[#3\right]
616        \else
617          \ebs@expectop\!\left[#3\,\middle|\,#2\right]
618        \fi
619      \else
620        \ifx\relax#2\relax
621          \ebs@expectop_{#1}\!\left[#3\right]
622        \else
623          \ebs@expectop_{#1}\!\left[#3\,\middle|\,#2\right]
624        \fi
625      \fi
626    }
627    \newcommand{\indic}[1]{\mathbf{1}_{#1}}
628    \newcommand{\var}[1]{\mathbf{V}\!\left[#1\right]}
629    \newcommand{\Var}{\mathrm{Var}}
630    \newcommand{\Cov}{\mathrm{Cov}}
631    \newcommand{\normal}{\mathrm{N}}
632    % Order
633    \newcommand{\order}[1]{\mathrm{O}\!\left(#1\right)}
634    % Sets
635    \newcommand{\Cset}{\mathbf{C}}
636    \newcommand{\Hset}{\mathbf{H}}
637    \newcommand{\Nset}{\mathbf{N}}
638    \newcommand{\Qset}{\mathbf{Q}}
639    \newcommand{\Rset}{\mathbf{R}}
640    \newcommand{\Zset}{\mathbf{Z}}
641    % Absolute value and sign
642    \providecommand{\abs}[1]{\left\lvert#1\right\rvert}
643    \DeclareMathOperator{\sign}{sign}
644    % Evaluated at
645    \RequirePackage{ifthen}[2001/05/26]
646    \newcommand{\evaluatedat}[3][]{%
647      \left.#3\right\rvert_{#2}\ifthenelse{\equal{#1}{}}{\relax}{^{#1}}}}
648    % Other mathematical expressions
649    \DeclareMathOperator*{\argmax}{argmax}
650    % Common (English) abbreviations
651    \newcommand{\eg}{e.g.}
652    \newcommand{\ie}{i.e.}
653    \newcommand{\iid}{i.i.d.}
654    % Common (German) abbreviations
655 %   \renewcommand{\dh}{d.\,h.}
656    \newcommand{\cp}{c.\,p.}
657    \newcommand{\idR}{i.\,d.\,R.}
658    \newcommand{\mE}{m.\,E.}
659    \newcommand{\uU}{u.\,U.}
```

14

```latex
660    \newcommand{\zB}{z.\,B.}
661    % Theorems
662    \newcommand{\theoremname}{Theorem}
663    \newcommand{\lemmaname}{Lemma}
664    \newcommand{\propositionname}{Proposition}
665    \newcommand{\corollaryname}{Corollary}
666    \newcommand{\definitionname}{Definition}
667    \newcommand{\conjecturename}{Conjecture}
668    \newcommand{\examplename}{Example}
669    \newcommand{\remarkname}{Remark}
670 %    \newcommand{\notename}{Note}
671    \newcommand{\casename}{Case}
672    % Babel support for theorems
673    \AtBeginDocument{%
674      \@ifpackageloaded{babel}{%
675        \addto\extrasenglish{%
676          \renewcommand{\theoremname}{Theorem}
677          \renewcommand{\lemmaname}{Lemma}
678          \renewcommand{\propositionname}{Proposition}
679          \renewcommand{\corollaryname}{Corollary}
680          \renewcommand{\definitionname}{Definition}
681          \renewcommand{\conjecturename}{Conjecture}
682          \renewcommand{\examplename}{Example}
683          \renewcommand{\remarkname}{Remark}
684 %        \renewcommand{\notename}{Note}
685          \renewcommand{\casename}{Case}%
686        }
687        \addto{\extrasngerman}{%
688          \renewcommand{\theoremname}{Theorem}
689          \renewcommand{\lemmaname}{Lemma}
690          \renewcommand{\propositionname}{Satz}
691          \renewcommand{\corollaryname}{Korollar}
692          \renewcommand{\definitionname}{Definition}
693          \renewcommand{\conjecturename}{Vermutung}
694          \renewcommand{\examplename}{Beispiel}
695          \renewcommand{\remarkname}{Bemerkung}
696 %        \renewcommand{\notename}{Anmerkung}
697          \renewcommand{\casename}{Fall}%
698        }%
699      }{\relax}%
700    }
701  \RequirePackage{amsthm}[2004/08/06]
702  \theoremstyle{plain}
703  \newtheorem{thm}{\theoremname}[chapter]
704  \newtheorem{lem}[thm]{\lemmaname}
705  \newtheorem{prop}[thm]{\propositionname}
706  \newtheorem{cor}{\corollaryname}[chapter]
707  \theoremstyle{definition}
708  \newtheorem{defn}{\definitionname}[chapter]
709  \newtheorem{conj}{\conjecturename}[chapter]
```

```
710  \newtheorem{exmp}{\examplename}[chapter]
711  \theoremstyle{remark}
712  \newtheorem*{rem}{\remarkname}
713 %  \newtheorem*{note}{\notename}
714  \newtheorem{case}{\casename}
715 \fi
716 \endinput
717 ⟨/ebsthesis⟩
```