

# The upref package

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## 1 Introduction

This package changes the `\ref` command so that it never applies a slanted font shape to its argument, regardless of context. This was the default behavior in `amsart` version 1.1. Starting with `amsart` version 1.2, upright references must be obtained via `\usepackage{upref}`.

## 2 Implementation

Give package name, date, version.

```
1 \NeedsTeXFormat{LaTeX2e}[1995/06/01]
2 \ProvidesPackage{upref}[2004/07/29 v2.01]
```

`\@noref` Give a warning if a cited reference isn't defined.

```
3 \newcommand{\@noref}[1]{%
4   \G@refundefinedtrue
5   \nfss@text{\reset@font\bfseries ??}%
6   \@latex@warning{Reference `#1' on page \thepage\space undefined}%
7 }
```

`\@setref` If the current fontshape is italic or slanted, we want to switch to upright/roman for printing the number of a `\ref`. This requires changing the `\@setref` command.

Since `\@setref` is modified by the `hyperref` package, delay the definition until `\AtBeginDocument`. Then check whether `hyperref` is loaded. If it is, we have to redefine some control sequences that `hyperref` defined in order to get upright references even in a `hyperref` environment. [tjk,bnb, 2004/07/29]

```
8 \AtBeginDocument{%
9   \@ifpackageloaded{hyperref}{%
```

We overload `\Hy@setref@link` as this is where the upright references get clobbered. Used in overloaded `\@setref`.

```
10   \def\Hy@setref@link#1#2#3#4#5#6\@nil#7{%
11     \begingroup
12     \toks0{\hyper@@link{#5}{#4}}%
13     \toks1\@xp{#7}{\textup{#1}\hbox{}}{#2}{#3}{#4}{#5}}%
14     \edef\x{\endgroup\the\toks0\the\toks1}\x
15   }%
```

We should not have to overload `\@setref`, but there is a chance that an author is using an old version of `hyperref` which does not use `\Hy@setref@link` in `\@setref`.

```
16   \def\@setref#1#2#3{%
17     \ifx#1\relax
```

```

18      \xp\protect\@noref{#3}%
19      \else
20      \xp\Hy@setref@link#1\@empty\@empty\@nil{#2}%
21      \fi
22  }%
23 }{%
24   \def\@setref#1#2#3{\ifx#1\relax
25     \protect\@noref{#3}%
26     \else
27     \protect\textup{\@xp#2#1\hbox{}}}%
28   \fi
29   }%
30 }%
31 }

```

`\@upn` The function `\@upn` is used to force theorem numbers and similar elements to be upright in sloped or italic contexts. If a suitable italic font with upright numbers and punctuation is available, this function should be redefined to be a no-op.

```
32 \providecommand\@upn{\textup}
```

The usual `\endinput` to ensure that random garbage at the end of the file doesn't get copied by `docstrip`.

```
33 \endinput
```

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

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