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.

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

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

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

`\@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]

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

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

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

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`.

```
    \def\@setref#1#2#3{%
      \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.