

## 命令模式

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TMmt tm0 [, tm90 ] [/CS | /C2]

Specifies a trimming moment function to be used.

设定纵倾力矩或函数。

TMmt OFF

Turns trimming moments off.

关闭纵倾力矩。

TMmt REPORT

Reports the current trimming moment and its derivation to the screen and any output file.

将当前纵倾力矩及其计算报告到屏幕和任何输出文件。

TMmt

Displays the current trimming moment (screen only).

屏幕显示当前的纵倾力矩。

## 参数说明

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tm0

Moment at 0°trim.

纵倾为 0 度时的力矩。

tm90

Moment at 90°trim.

纵倾为 90 度时的力矩。

/CS

Specifies that the cosine/sine form be used (see below).

指定纵倾力矩为 cosine/sine 形式。

/C2

Specifies that the cosine^2 form be used.

指定纵倾力矩为 cosine^2 形式。

Units are current weight units times length units.

单位为当前重量单位乘以长度单位。

Note: Trimming moments are taken into account when computing righting arms and finding trim equilibrium. (See the RA and SOLVE commands.)

说明：当计算纵向回复力臂和纵倾平衡角时会用到纵倾力矩（查看 RA 和 SOLVE 命令）。

Although a common application of the trimming moment feature is to model wind trimming, it is not limited to wind.

虽然常用纵倾力矩来模拟风产生的纵倾，但并不仅仅局限于风。

## Operation

### 操作

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If  $tm90$  is omitted and no slash parameter is included, the trimming moment is equal to  $tm0$  regardless of the trim angle.

如果省略  $tm90$ ，也不包含斜线参数，无论在任何纵倾角下，纵倾力矩默认为纵倾为 0 时的力矩。

Otherwise, the trimming moment is

否则，纵倾力矩为：

$tm0 \cos(\Phi) + tm90 \sin(\Phi)$  with /CS or no slash parameter

$tm0 \cos(\Phi) + tm90 \sin(\Phi)$  附加参数/CS 或无斜线参数时的力矩形式。

$(tm0 - tm90) \cos^2(\Phi) + tm90$  with /C2.

$(tm0 - tm90) \cos^2(\Phi) + tm90$  附加参数/C2 时的力矩形式。

With  $tm0 = 0$  or "OFF" ( $tm90$  omitted), the trimming moment becomes zero; ie. it is "turned off".

当  $tm0 = 0$  或附加参数"OFF"（省略  $tm90$ ）时，纵倾力矩变为 0，即：关闭纵倾力矩。

If  $tm90$  is omitted and either /CS or /C2 is included, its effect is as if  $tm90$  were included as zero.

如果省略  $tm90$ ，附加参数/CS 或/C2，则  $tm90$  为 0。

## Display Output

### 显示输出

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TMMT REPORT produces a report of the current trimming moment and indicates its source when pull forces are present.

TMMT REPORT 生成当前纵倾力矩的报告，并在存在拉力时指示其来源。

If the TMMT command is given without parameters, it displays (on the screen only) the value of the trimming moment function at the current trim angle. While it is called "wind trimming moment" on the screen, it may be applied to other sources of trimming moment as well.

如果给定命令 TMMT，而不附加任何的参数，会屏幕显示当前纵倾角度下的纵倾力矩函数值。当屏幕显示所谓的：“风倾力矩”时，也可能是其它力导致的纵倾力矩。

When trimming moment is in effect, the RA command output includes a note documenting the form of the trimming moment functions employed.

当考虑纵倾力矩时，命令 RA 的结果中包括如何计算纵倾力矩函数的说明。

### Nondisplay Output:

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## 无显示输出

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none.

无

## Examples

### 样例

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Specifying a constant trimming moment:

指定纵倾力矩为固定值 1234:

**TMMT 1234**

Specifying trimming moments at 0° and 90°

分别指定在纵倾 0 度和 90 度时的纵倾力矩:

**TMMT 1400 1900**

Trimming moments using the cosine<sup>2</sup> function:

纵倾力矩使用 cosine<sup>2</sup> 函数公式:

**TMMT 1400 1900 /C2**

Reporting the current trimming moment:

报告当前的纵倾力矩:

**TMMT REPORT**

Turning off all trimming moments:

关闭所有的纵倾力矩:

**TMMT OFF**