

命令模式

ROLL Φ | OFF

Specifies a change of heel angle to be applied later through the ROLL keyword in the HEEL, RA, and LIMIT commands (or turns OFF any roll).

在命令 HEEL, RA, 和 LIMIT 中, 通过关键词 ROLL 设定横摇角的变化 (或关闭任何的横摇)。

ROLL IMO [/K: k | /AK: Ak] [/L: length] [/B: beam] [/D: draft] [/Cb: Cb] [/FSM | /TRUEFSM [/HIGHCG]]

Same as above except the roll angle is determined as in the IMO and USCG Severe Wind and Rolling criterion.

通过横准 IMO 和 USCG Severe Wind and Rolling criterion 指定横摇角。

ROLL [/PRINT]

Displays a report of the roll angle in the present condition.

报告显示当前工况下的横摇角。

ROLL REPORT

Reports to both screen and output device; combines ROLL with ROLL /PRINT.

显示并输出横摇角报告。

ROLL CONStant [C]

Directly sets the roll period constant for use by roll period calculations.

直接设定横摇周期恒定不变。

ROLL PERIoD [T] [/FSM | /TRUEFSM]

Indirectly sets the roll period constant by giving the observed roll period.

通过给定观察得到的横摇周期间接设定其值恒定不变。

参数说明

Φ

Change in heel angle (degrees).

改变横倾角度 (单位为度)。

k

A positive number less than or equal to 1.0 representing the reduction in roll due to appendage damping. The default value is 1.0.

小于或等于 1 的正数, 表示因为附体阻尼而导致的横摇折减, 默认值为 1.

AK

The total keel lateral area. May be given in lieu of the /K parameter.

龙骨面面积。可以代替参数/K。

length

The waterline length. If the /L parameter is not given, the actual waterline length (at the time the roll angle is applied) is used. The keyword LBP may be used, in which case the length previously specified through the LBP (or LWL) command is taken.

水线长度。如果不附加参数/L, 会使用当前横摇角时的实际水线长度。也可以使用之前通过命令 LBP (或 LWL) 定义的长度。

beam

The breadth of the ship. If not given, the overall breadth of the model is used.

船舶型宽。如果不指定, 使用船舶模型的最大宽度。

draft

The mean draft of the ship. If not given, the midship draft (to the current draft line, if one is defined) is used.

船舶平均吃水。如果不指定, 使用当前水线下的船舫吃水。

Cb

Block coefficient. If not given, it is calculated by

方形系数, 如果不指定, 可以通过下面方式计算:

$$\text{DispVol}/(\text{length}*\text{beam}*\text{draft})$$

where

DispVol is the displacement volume.

表示排水体积

C

The roll period constant.

横摇周期为常量。

T

The roll period.

横摇周期