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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 37303.1-2019

Ships and marine technology -- Manoeuvring of ships -- Part 1: General concepts, quantities and test conditions

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Foreword

GB/T 37303 "Ship and Marine Technology Ship Maneuverability" is divided into six parts.

--- Part 1. Basic concepts, quantities and test conditions;

--- Part 2. Swing and yaw correction;

--- Part 3. Heading stability and steering;

--- Part 4. Shipment, acceleration and traverse;

--- Part 5. Submarine special requirements;

--- Part 6. Special requirements for model tests.

This part is the first part of GB/T 37303.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to the ISO 13643-1.2017 "Ship and Marine Technology Ship Maneuverability Part 1. Basic Overview

Mind, quantity and test conditions.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

---GB/T 30493-2014 Guidelines for the planning, implementation and reporting of marine trials for ships and offshore technology (ISO 19019.2005,

IDT).

This part is proposed and managed by the National Marine Ship Standardization Technical Committee (SAC/TC12).

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1 Scope

This part of GB/T 37303 specifies GB/T 37303.2~GB/T 37303.6 for describing and determining the ship's handling characteristics.

Corresponding specific test physical quantities of the concept, symbols and test conditions.

This section applies to maneuverability tests on surface ships, submarines and models.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 19019 Guide to marine trial planning, implementation and reporting of marine and offshore technology (Sea-goingvesselsandmarine

technology-Instructionsforplanningcarryingoutandreportingseatrials)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Manipulative manoeuvring

All manipulations, maneuverability tests, and tests or other methods used to determine maneuverability (eg, calculations, simulations, etc.).

Note. Maneuverability includes measures to maintain navigation in the event of external disturbances.

3.2

Maneuvering manoeuvre

The way in which the ship's heading and speed are changed, for submarines, also includes the way to change depth and attitude.

Note. Special handling includes departure, evasion or rescue (the crew accidentally falls into the water).

3.3

Maneuverability test manoeuvringtest

A test used to determine and evaluate the manoeuvring characteristics of a ship under the conditions specified by the standard using a real ship, a solid boat or a model.

Note. Maneuverability tests are usually similar to ship maneuvers, but specific manoeuvring characteristics should be tested as much as possible.

3.4

Computer compatible code CC-Code

Computer compatible symbols specified in the 14th International Tow Pool Meeting.

3.5

Manipulator manoeuvringdevice

Rudder, full swing propeller, horizontal rudder, straight wing propeller or other equivalent system for maneuvering ships.