

How can CFD-based ship energy-saving technologies reduce ship resistance?

Table 6. The CFD-based ship energy-saving technologies. As can be seen from Table 6, the hull optimization technology can reduce ship resistance by more than 2 %, with the highest of 21.34 % of the total resistance coefficient reduction for the Trimaran.

How can energy saving technologies reduce ship fuel consumption?

Summary The energy-saving technologies, including coating , bubble , and air layer drag reduction technologies [120, 121], have been widely studied and applied on ships, which can effectively reduce ship fuel consumption.

What equipment is used to save energy on a ship?

The commonly used ship energy-saving equipment mainly include the pre-propeller energy-saving devices(such as flow rectifying ducts and fins) and post-propeller energy-saving devices (such as rudders,bulbous bows,and stern appendage fins),as well as the wind-assisted propulsion systems,etc.

How drag reduction technology can reduce ship energy consumption?

As it can be seen, various drag reduction technologies, including DRC, BDR, ALDR, have been employed to reduce ship energy consumption. The DRC technology mainly used in bulk carriers, container ships, oil tanker can effectively reduce the ship fuel consumption.

What are the energy-saving technologies based on CFD approaches?

The ship energy-saving technologies based on CFD approaches have been discussed, including the hull optimization design, drag reduction technology, navigation state optimization, efficient propulsion devices, energy-saving equipment, and the overall performance optimization through the CFD-based coupled dynamics analysis.

Do energy-saving appendages reduce energy consumption?

The dynamics analysis and optimization of the energy-saving appendages is significant to reduce energy consumption[236,237],thereby improving the fuel efficiency of ships [238,239]. 6.1. Performance analysis of energy-saving appendages

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