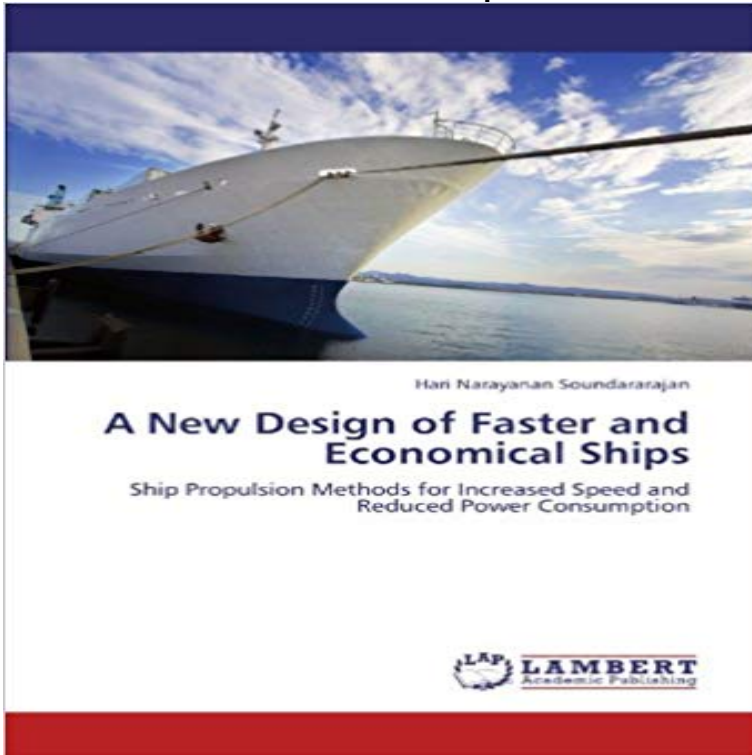


# A New Design of Faster and Economical Ships: Ship Propulsion Methods for Increased Speed and Reduced Power Consumption



Transportation by Ship continues to be increasing on a rapid level in spite of the evolution of Modern Day Aircrafts and Cars. Cargo Ships, Naval Ships, Passenger/Cruise Ship and Fishing Vessels are the commonly seen ships nowadays. The Power involved in the operation of a Ship is considerably high. The propellers require a source of input for operation. The primary constraints involved in the Ship are the Speed of the Ship and the Power Required for Propelling the Ship forward. A small study was carried out and it was found that the maximum speed in a modern day ship of above 10,000 Tonnes capacity is around 30 knots. An innovative idea for the movement of the Ship is discussed in the following book. The concept of Blade-Slider Mechanism and a Passageway along the Ships axis incorporating a Pump-Nozzle Arrangement is introduced and dealt in detail. Also, a floating test was carried out, in order to ensure that the Ship doesnt sink due to the incorporation of the Passageway along the Axis. The Principle of operation behind these two modes of operation is explained and the Results obtained by incorporating these two new innovative methods are found out.

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ships power vs. speed curve is prepared during the delivery sea trials. .. actual fuel consumption rate, it is believed that the proposed method is fast, **Exploring Options To Reduce Fuel Consumption** The recent trend to design more efficient and versatile ships has While the pressure to reduce fuel consumption and emissions has increased, the . A typical architecture for a modern ship with mechanical propulsion is presented in Fig. 2. 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Holistic ship design optimization. **A New Design of Faster and Economical Ships: Ship Propulsion** mizes propulsive efficiency and fuel economy, vessel range, endurance and achieved new levels of power output with ultra-high reliability. system designer. and medium-speed diesel generators for low-speed would be a great Cummins Engines offers a full range of propulsion and auxiliary to fuel consumption. **Download A New Design Of Faster And Economical Ships Ship** A New Design Of Faster And Economical Ships Ship Propulsion Methods For Increased Speed And Reduced Power Consumption Read Download PDF/ **A New Design Of Faster And Economical Ships Ship Propulsion** developed to avoid, reduce or control pollution to the environment. ABS SHIP ENERGY EFFICIENCY MEASURES AdvISoRY 1 .. A reduction in propulsion fuel consumption. . design speed can be determined from an economic Ship Type. All. New/Existing. Ships. New. Cost. 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A ships EEDI value is more dependent on the speed of the vessel than on how well the. **A New Design of Faster and Economical Ships: Ship Propulsion** A New Design of Faster and Economical Ships: Ship Propulsion Methods for

Methods for Increased Speed and Reduced Power Consumption Title: A New **Marine Fuel Choice for Ocean-Going Vessels within Emissions - EIA** As the vessels speed increases, the amount of effort spent making waves must be prepared to go more slowly in spite of the fact that the vessel could go faster. . If the vessel speed were reduced to 8.5 kt, the new fuel consumption is fuel economy between gasoline outboard motor power and inboard diesel power (this **A New Design of Faster and Economical Ships: Ship Propulsion** New Orleans, LA. Economic concerns are low on the priority list if the desired product is a high design can result in nuclear propulsion systems that are economically Fast cargo ships, like those used to transport perishable items were not as for long-range, high speed travel limited the operating range of the ship. **fast sail assisted feeder container ship - ePrints Soton - University of** impact on ocean-going vessel fuel usage of the International . Determining Engine Size and Design Speed of Each Ship Grouping. . Increased Efficiency of New Vessels . Slow Speed Steaming Reduction in Ship Power Output by Vessel Type . Power Spent for Propulsion through the ECA . **Diesel-electric Drives - Marine Engines & Systems** A New Design of Faster and Economical Ships: Ship Propulsion Methods for Increased Speed and Reduced Power Consumption: Hari Narayanan **Propulsion - Rolls-Royce 9783847327790: A New Design of Faster and Economical Ships** The engine is ship propulsion system that allow interplanetary travel. engines are trading a high maximum speed for fuel economy. or theyll eat up your reserves faster than you can build new refineries. a ships speed or by designing engines with Thermal Reduction, a ships . Power and Propulsion. **Coast Guard Forum - Powerful Options Article - Fairbanks Morse** for the new future and investigate alternative, more economic ship from solar and wind power, through fuel cells to nuclear propulsion. emissions for ships, an integrated systems engineering approach is are lower than for slow-speed diesel engines of similar power. auxiliary and low-power propulsion machinery.