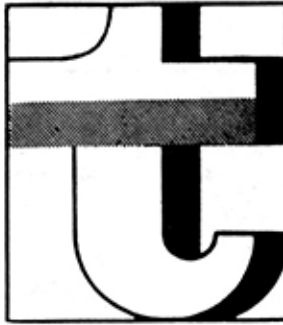




**POLISH
TECHNICAL
REVIEW**





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SIGMA

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Devices improving the manoeuvring characteristics of ships

New devices improving the manoeuvring abilities of ships i.e. two types of stern shields, a steering and braking device "Doerffer's rudder", an opening bulbous bow and a wake pressure equalizing device have been thoroughly tested in a cavitation tunnel and on a self-propelled model. The author gives details of the application of "Doerffer's rudder" on the 735 kW tug boat "Achilles". See article on p. 2

Preparation of reactive carbon fibres

New methods of obtaining reactive carbon fibres used in silicon-matrix composites as well as absorption materials have been developed in the Academy of Mining and Metallurgy, Cracow.

The main advantage of these methods is the relatively simple preparation of reactive carbon fibres with a large specific surface. They can be used for the production of carbon materials in the form of unwoven fabrics, wools and mats which exhibit absorption and filtration properties towards chemical substances. For details see p. 15

FEPTERM SP corrosion preventing coating

Scholars from Gliwice and Opole have developed and implemented a technology of manufacture and application of protective coatings capable of coming into contact with chemicals, foodstuffs, pharmaceuticals and biological products, named FEPTERM SP. Application of these coatings is economically sound and enhances considerably the technical value of plant equipment. See article on p. 19

The "Polish Sail" wind propulsor

The Shipyard of Gdańsk which has considerable experience in the building of sail-assisted ships has designed a new type of wind propulsor named "Polish Sail" (Polski Zagiel) which was applied in the OCEANIA research vessel. The design assumptions have been confirmed fully to date through the operation of that ship. The bracing, sail setting and taking in operations have been fully mechanized. A "Polish Sail" version for passenger-and-excursion vessel has been also developed. Details on p. 9

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A light multi-purpose An-28 plane designed by O.K. Antonov's Technical Office and made by the PZL-MIELEC Transport Equipment Factory at Mielec. The plane is exported, among other countries, to the U.S.S.R.

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