THE SPECIALIZATION OF SHIPS OF WAR,

(Translated from the Russian in the Revue Coloniale et Maratime for April, 1873)

In the days of sailing fleets, vessels of war were distinguishable into two classes-ships of the line, and ships not of the line. This distinction was a perfectly natural one, inasmuch as the first alone, had their position in the line of battle predetermined and constituting, moreover, the fighting force par excellence, of the fleet; all the other vessels had a more or less specific destination, and, in accordance with this destination. their construction varied considerably. To the latter class belonged frigates, corvettes brigs, schooners, and all sorts of vessels serving as hie ships and transports. All were absolutely dependent on the fleet, on the heavy mass of ships, which, from the very nature of its locomotive powers, was compelled to maintain a compact formation. under pain of not being able, when once dispresed, to get together again within a given worved were resolved in respect of the types

In the present day, the character of ships of war has altered so much, in respect both snot of the line. of their means of locomotion and their light no longer any real significance. The size, together, that certain types of vessel were extended in action of falling portions of the lattee construction, the armament of vessels of the line the construction of a fleet; risk in action of falling portions of the latter one of each requires rules of its own; besides, that for ships of the line the most advantation of a fleet; which is point further on. the introduction of ramming and of torpe. If from which all vessels not of the line should a fleet be concentrated on the war are now so varied that the manuatring that the sample war are now so varied that the manuatring that the sample war are now so varied that the manuatring that the sample war are now so varied that the manual warfare in its own; besides, from which all vessels not of the line should. To the question: Should the vessels does will completely change the character of keep clear, that in engaging, each vessel, composing a fleet be concentrated on the naval warfare in future, and give a personal sife superior to her opponent, should endeavor approach of the enemy ?—we cannot there-initiative to the commanders of individual to get as close as possible to the latter; that for give a nafirmative reply. The qualities ships incomparably greater than they posse the power of a Tvessel was measured by the sand capabilities of each vessel must be considered. Sidered separately, and she should be so importance of each ship in a squadron has a like the above have no existence. In proof the uttermost. The principal role will accordingly, he played by vessels specially conimportance of each ship in a squadron has At present all is unknown. General rules greatly increased; the dependence existing tilke the above have no existence. In proof between the individual vessels of a squadron thereof, let us attempt to discover what are in their collective capacity has, on the other the present equivalents of these rules, and in their collective capacity has, on the other than the present equivalents of these rules, and the collective capacity has a squadron to the present equivalents of these rules, and the collective capacity has a squadron to the present equivalents of these rules, and the collective capacity has a squadron to the present all is unknown. General rules in provide the collective capacity has a squadron to the collective capacity has a collective capacity hand, materially diminished.

In the opinion of the majority of writers formulated on the subject who have recently discussed the subject of athing similar can exist. In a conspicuous part in future may actions; to be brought together on the now, ramming and the movements necestory to avoid attacks of this description, present the enemy?

The question appears at f sury to avoid attacks of this description, pre-clude the possibility of any regular forma-tion, so that each vessel will be compelled to act for herself according to circumstances and with due regard to the means of attack and defence with which she is provided. But those means vary greatly; and consequent, by the rules for lighting individual ships general engagement?

of naval tactics would in future be limited a. With such means of defence available, the to a consideration of the conditions under a ojourn of an enemy's fleet, say in the Gulf to a consideration of the conditions under to a find the conduct of single encounters, (naval duels) only; and it would be impossible to stop short at this point. Other questions therefore, he considered as well. These are: What descriptions of vessels are capable of acting in concert with the fullest measure of advantage? How should they measure of advantage? How should they ment to a fleet thus acting on the defensive act so as to impede each other's movements is little as possible, and at the same time along upon the enemy? What description of wessel is most advantageous to employ unage upon the enemy? What description of wessel is most advantageous to employ unage upon the enemy? What description of wessel is most advantageous to employ unage upon the enemy? What description of wessel is most advantageous to employ unage upon the enemy? What description of would be productive of ovil rather than aller certain given circumstances against a otherwise. der certain given circumstances against a gotherwise. certain given type of opponent.

These questions will have to be decided; but to this even it is indispensably requisite to have a well considered class classification moment, if needed, as the orders could be of vessels based upon the exigencies of modern warfare. Such a classification existed in the past, add some of the questions in then existent. The two principal classes, as we have said, were ships of the line and those.

It was a recognized principle that on the ing powers, that the above classification has sapproach of the enemy the fleet should keep wo shall not only find that nothing oin be formulated on the subject, but that Let us consider

> Ought the vessels of a fleet or squadron to be brought together on the approach of

If we concede that it will be impossible We are disposed to think that such cases for an admiral, or any other single officer to will be of extremely rare occurrence, because the many of attack and defende are wholly We are disposed to think that such cases control the movements of all the ships under the means of attack and defence are wholly his command during an engagement, the theanged from those of the past; and be problem to be solve i in future navid actions it use also the facilities for managiving have will be to fix the general principles upon specime vastly increased. With the exist-which the movements of individual ships ting means of defence, each ficet would have should be based, so as to secure the maximum of military effect with the minimum through the individual ships of needless risk and exposure.

despatch vessel should one and all be hand—
Would it be practicable for a fleet to keep blockade of its coasts, because it had not a fire.

For each, according to the style of oppon every blockade of its coasts, because it had not a fixture had a sufficient number of torpedo the ironclads, the Kenig Wilhelm included, ent with which she has to deal, there will be similar either to those built by Prussiver incapable of performing this service, certai conditions, offering the greatest ad course of construction at Washington, ready The next question—Of what types of vesvantages, and which it is the duty of her to attack it every night, or a number of ar-sel should a fleet or squadron be now comcommander to secure and turn to the best mour plated rams of high speed, and nearly posed?—must be deferred till a future opaccount. From this point of view, the study invisible in the dark?

But, although dispersed, the ships could be massed at a given point, at any given delivered to each of them almost simultancousiy by telograph; and the speed of iron-clads under steam is little affected by the wind, so that in confined sens like the Baltic they may be regarded as almost independent of the weather.

It may here be observed that movements against the wind are much impeded by the masts and rigging, a source of great incon-

cordingly, he played by vessels specially constructed, for special purposes.

Taking other considerations into account, we shall also find that special types of vessel are best adapted to the solution of the problems above proposed. Powerful vessels for general purposes are very often incapable of giving the desired results at the right moment. Again, the construction of vessels of special types, as a rule, is infinitely less costly than that of others designed to answer a variety of ends, as in the latter the dimen-sions are necessarily greater, and withal the desired ends are not always attainable, as the possession of certain qualities interferes with or excludes that of others; so that vessels constructed for general purposes though formidable in appearance, and constructed at great cost, may not give the anticipated results in action-may, in fact, prove worthless, whilst other incomparably cheaper constructions will fully satisfy the tactical demands made upon them.

The late Franco German war supplies a remarkable illustration in point. The French fleet was perfectly useless, because it was These principles are not identical in the follow that a fleet thus circumstanced should composed exclusively of heavy armorelad case of ships of every class—on the contrary freman in mactivity. In the face of a very vessels, and was unfurnished with others of they differ very widely according to the size, superior force of the enemy, the monelads special construction, fitted to act in the construction, armament, &c. For instance, two ald remain quiet, but then would composed exclusively of heavy armorelad vessels, and was unfurnished with others of special construction, fitted to act in the construction, armament, &c. For instance, two ald remain quiet, but then would composed exclusively of heavy armorelad exclusively of