

ation the shape of the upper and lower edges and the gap effect.

Relating this gradient C_{YRa} to the speed and the underwater lateral area of the ship one obtains the above mentioned rudder effectiveness C_{Ys} : (A_{RP} , A_{R0} including fixed rudder parts)

$$C_{Ys} = C_{YRa} \cdot \frac{A_R}{L \cdot T} \cdot (1-w)^2 \cdot \left[1 + \frac{A_{RE}}{A_{R0}} \cdot (C_f^2 - 1) \right] \quad (1.2.46).$$

This equation shows that a desired rudder effect is obtained with different ratios $A_R/(L \cdot T)$, taking into account the other influencing factors.

To realize a certain rudder effectiveness C_{Ys} , the following properties of the rudder must be considered:

a) The gradient of the side force coefficient C_{YRa} (approximately equal to the gradient of the cross-force coefficient C_{Ca}) can be calculated from experimental results or from empirical formulae, valid for slender profile rudders and giving sufficient approximation depending on the effective aspect ratio Λ of the rudder:

$$\text{by Mandel}^{22)} C_{YRa} = \frac{1.8 \cdot \pi \cdot \Lambda}{\sqrt{\Lambda^2 + 4} + 1.8} \quad (1.2.47),$$

$$\text{by Söding}^{23)} C_{YRa} = \frac{2 \cdot \pi \cdot \Lambda \cdot (\Lambda + 1)}{(\Lambda + 2)^2} \quad (1.2.48).$$

b) The effective ratio Λ is determined by the geometrical aspect ratio $\Lambda_0 = b/c$ (with b = height, c = mean chord length), taking into account the gap or mirror effect at the upper edge of the rudder. For calculating the geometrical aspect ratio the rudder area A_{R0} includes all fixed rudder parts. Hence $\Lambda_0 = b^2/A_{R0}$ should be considered. From experimental results by Flügel²⁴⁾ and others, and from

theoretical considerations²⁵⁾ the gap effect can be estimated as follows: (a = gap between the upper rudder edge and the stern, rudder top and fixed fin).

c) Special profiles, e. g. the IFS-rudder profiles^{25)/6)} with larger leading edge radius and parallel after part provide an increase of an up to 15 % higher cross-force gradient²⁶⁾.

d) Due to interferential effects the rudder area A_R includes an essential percentage of the fixed rudder parts (about 50 % for small rudder angles of the fixed structure).

e) The rudder area in the propeller slipstream should be calculated in consideration of the propeller jet contraction:

$$A_{RP} (m^2) = D_R \cdot c \text{ (including fixed parts)}$$

$$D_R (m) = D \cdot \sqrt{\frac{1 + 0.5 \cdot \sqrt{C_{Tb}} + 1 - 1}{1 + k_m \cdot \sqrt{C_{Tb}} + 1 - 1}} \quad (1.2.49),$$

where

$c (m)$ = mean chord length of moveable and fixed part.

III. Definition of the desired steering qualities

Currently no obligatory regulations for the steering qualities of a ship are available. Evidently, however, the existing ships in average have sufficient steering qualities. This enables the definition of desirable or necessary steering qualities. As mentioned above, we make use of different requirements (see app. F).

Sufficient turning and yaw checking abilities

Brix²⁶⁾ represented nondimensional initial turning and yaw checking times from 20°/10° zigzag test²⁷⁾ for many ships as a function of the Froude number. From these data, nondimensionalized with L/V (ship length travel time), one obtains the following equations by linear regression:

gap effect	a/b	Λ / Λ_0 $\Lambda_0 = 1.50$	3.00
small gap (abt. 50 mm)			
plain stern	abt. 0.01	1.75	1.50
with counter fin	-	1.65	1.45
without counter fin	-	1.50	1.35
large gap (> 150 mm)	abt. 0.05	1.30	1.20

Table 1.2.5: Gap effect (see a in Fig. 1.2.28)



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Brendan G. Carr



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