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

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

$$C_{YS} = C_{YE_0} \cdot \frac{A_B}{L \cdot T} \cdot (1 - w)^2 \cdot \left[ 1 + \frac{A_{BP}}{A_{B_0}} \cdot (C_j^2 - 1) \right]$$
(1.2.46)

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

To realize a certain rudder effectiveness C<sub>V8</sub>, the following properties of the rudder must be considered:

a) The gradient of the side force coefficient C<sub>YRs</sub> (approximately equal to the gradient of the cross-force coefficient C<sub>Ca</sub>) 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 A of the rudder;

by Mandel<sup>12</sup>) 
$$C_{YR\alpha} = \frac{1.8 \cdot \pi \cdot \Lambda}{\sqrt{\Lambda^2 + 4} + 1.8}$$

$$(1.2.47),$$
by Söding<sup>23</sup>)  $C_{YR\alpha} = \frac{2 \cdot \pi \cdot \Lambda \cdot (\Lambda + 1)}{(\Lambda + 2)^2}.$ 

b) The effective ratio Λ is determined by the geometrical aspect ratio Λ<sub>G</sub> = 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 Λ<sub>Ro</sub> includes all fixed rudder parts. Hence Λ<sub>G</sub> = b// Λ<sub>Ro</sub> should be considered. From experimental results by Flügel<sup>20</sup>) and others, and from theoretical considerations<sup>27</sup>) 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<sup>15</sup>)<sup>11</sup>) with larger leading edge radius and parallel after part provide an increase of an up to 15 % higher cross-force gradient<sup>18</sup>).

d) Due to interferential effects the rudder area A<sub>R</sub> 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:

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

$$D_{R}(m) = D \cdot \sqrt{\frac{1 + 0.5 \cdot \sqrt{C_{Th} + 1} - 1}{1 + k_{m} \cdot \sqrt{C_{Th} + 1} - 1}}$$
(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

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

gap effect	a/b	$\Lambda / \Lambda_0$ $\Lambda_0 = 1.50$	3.00
small gap (abt. 50 mm)	abt. 0.01	1.75	1.50
plain stern with counter fin	aot. 0.01	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)



# **Manoeuvring Technical Manual Brix**

Anthony F. Molland, Stephen R. Turnock

#### **Manoeuvring Technical Manual Brix:**

Manoeuvring Technical Manual Jochim E. Brix,1993 **Marine Rudders and Control Surfaces** Anthony F. Molland, Stephen R. Turnock, 2011-02-24 Marine Rudders and Control Surfaces guides naval architects from the first principles of the physics of control surface operation to the use of experimental and empirical data and applied computational fluid dynamic modelling of rudders and control surfaces The empirical and theoretical methods applied to control surface design are described in depth and their use explained through application to particular cases The design procedures are complemented with a number of worked practical examples of rudder and control surface design The only text dedicated to marine control surface design Provides experimental theoretical and applied design information valuable for practising engineers designers and students Accompanied by an online extensive experimental database together with software for theoretical predictions and design development **Considerations to Reduce Environmental Impacts of** Vessels ,2008 Practical Ship Hydrodynamics Volker Bertram, 2011-09-06 Practical Ship Hydrodynamics Second Edition introduces the reader to modern ship hydrodynamics It describes experimental and numerical methods for ship resistance and propulsion maneuvering seakeeping hydrodynamic aspects of ship vibrations and hydrodynamic options for fuel efficiency as well as new developments in computational methods and model testing techniques relating to marine design and development Organized into six chapters the book begins with an overview of problems and approaches including the basics of modeling and full scale testing prediction of ship hydrodynamic performance and viscous flow computations It proceeds with a discussion of the marine applications of computational fluid dynamics and boundary element methods factors affecting ship hydrodynamics and simple design estimates of hydrodynamic quantities such as resistance and wake fraction Seakeeping of ships is investigated with respect to issues such as maximum speed in a seaway route optimization routing structural design of the ship with respect to loads in seaways and habitation comfort and safety of people on board Exercises and solutions formula derivations and texts are included to support teaching or self studies. This book is suitable for marine engineering students in design and hydrodynamics courses professors teaching a course in general fluid dynamics practicing marine engineers and naval architects and consulting marine engineers Combines otherwise disparate information on the factors affecting ship hydrodynamics into one practical go to resource for successful design development and construction Updated throughout to cover the developments in computational methods and modeling techniques since the first edition published more than 10 years ago New chapters on hydrodynamic aspects of ship vibrations and hydrodynamic options for fuel efficiency and increased coverage of simple design estimates of hydrodynamic quantities such as resistance and wake fraction Companion site featuring exercises and solutions formula derivations and texts http booksite elsevier com 9780080971506 Marine Rudders, Hydrofoils and Control Surfaces Anthony F. Molland, Stephen R. Turnock, 2021-11-30 The course keeping and manoeuvring requirements for a ship are governed by international maritime

law In assessing and predicting the course keeping and manoeuvring capabilities of the ship knowledge is required of the rudder forces necessary to keep a course or facilitate a manoeuvre The second edition of Marine Rudders Hydrofoils and Control Surfaces includes up to date data and rudder design techniques that enable the rudder forces to be estimated together with any interactions due to the hull and propeller The new edition describes the design and application of hydrofoils including shape adaptive design and their applications including hydrofoil craft yachts and kite surfing hydrofoils The professional will also face the need to design control surfaces for motion control such as roll and pitch for surface vessels and submersibles and the book contains the necessary techniques and data to carry out these tasks This book is for practicing naval architects and marine engineers small craft designers yacht designers hydrodynamicists undergraduate and postgraduate students of naval architecture maritime engineering and ship science and the broader engineering community involved in the development of marine craft that rely on the generation of lift such as control engineers and aerodynamicists Describes techniques for analyzing the performance characteristics of rudders hydrofoils and control surfaces Includes extensive design data and worked examples for the analysis of rudder hydrofoil and control surface performance Provides a detailed examination of the design of hydrofoils **Transactions - The Society of Naval Architects and Marine Engineers** Society of Naval Architects and Marine Engineers (U.S.),1995 List of members in vols 1 24 38 54 57 Technology Research, 2001 **Maritime Information Review** ,1993 *Transactions of the Royal Institution of Naval* Architects Royal Institution of Naval Architects, 2000 List of members in each volume **Maritime Studies Current** Awareness Bulletin ,1989 BMT Abstracts ,1990 Leichter als Luft Jürgen K. Bock, 2003 2001, חחחחחחחח Annali ... Istituto universitario navale (Naples, Italy). Facoltà di scienze nautiche, 1999 **Parliamentary Papers** Great Britain, Parliament, House of Commons, 1978 Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,1995 **Technical Manual and Maintenance Instructions** .1967 Naval Ships' Technical Manual United States. Naval Sea Systems Command, 1973 Ship Manoeuvring Principles and Pilotage Paul R. Williamson, 2001-01 Maneuvering Board Manual United States. Hydrographic

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