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NAVY DEPARTMENT
THE DAVID W. TAYLOR MODEL BASIN
Washington 7, D.C.



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DAVID W. TAYLOR MODEL BASIN
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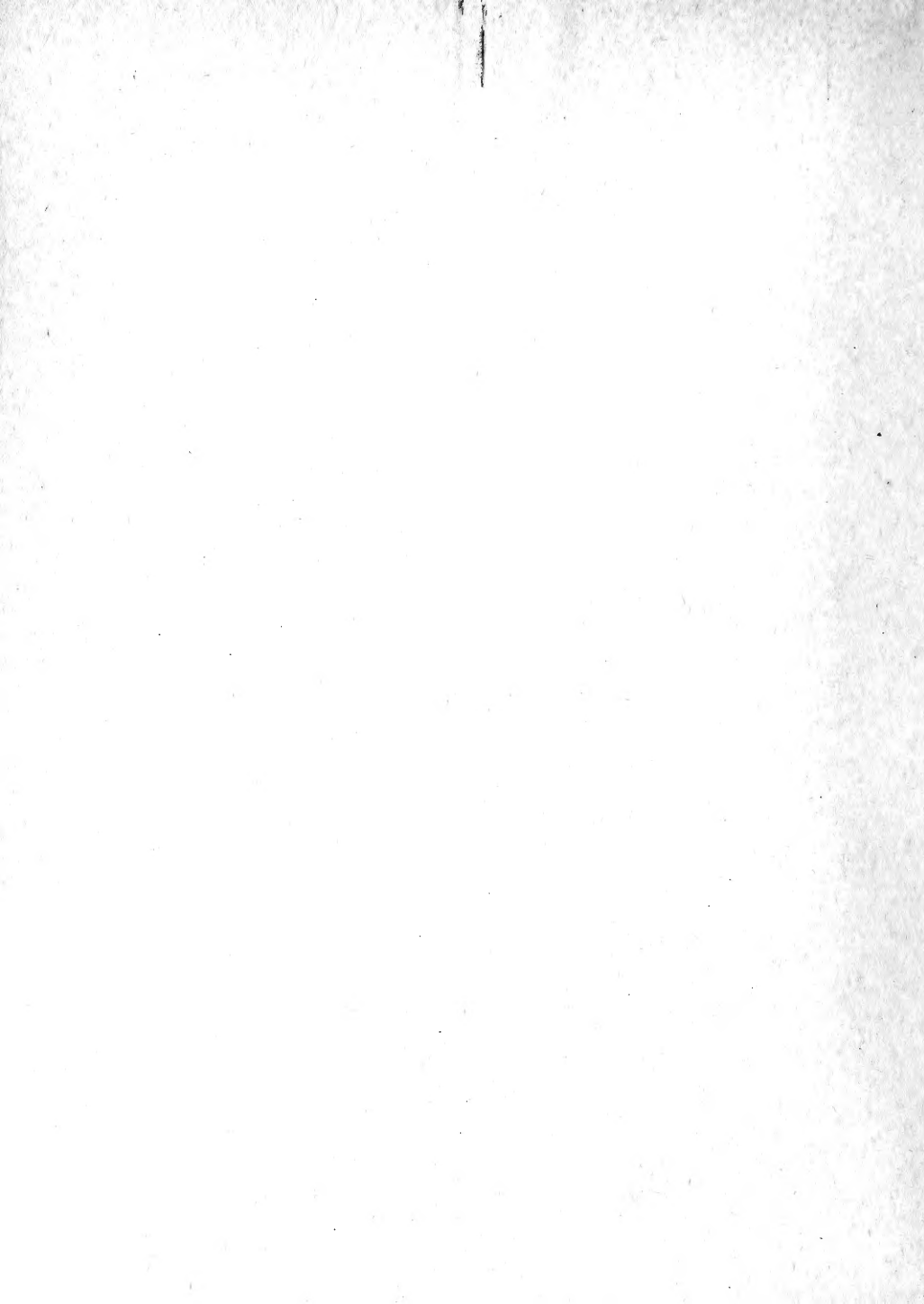


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REGULAR SERIES

1. Report of the Pitching and Rolling Experiments on Battle Cruisers 1-6 (with and without Bilge Keels). Jan 1920. This is revised in Report 4.
2. Report of Test of Model No. 2234 with and without Landing Wheels - Representing Twin Floats for 2450 Lb. Seaplane. Dec 1919. 8 pp., 6 figs. Distributed only upon authorization of Loening Aeronautical Engineering Corporation.
3. Report of Test of Model No. 2284 with and without Landing Wheels - Representing Twin Floats for 2570 Lb. Seaplane. Jan 1920. 10 pp., 6 figs. Distributed only upon authorization of Loening Aeronautical Engineering Corporation.
4. Revised Report of Pitching and Rolling Experiments on a Model of Battle Cruisers 1 to 6, with and without Bilge Keels. Jan 1920. 13 pp., 8 figs. This is a revision of Report 1.
5. Report of Test of Model No. 2269 (Three Types of Stern) - Representing Hull for Two-Place Flying Boat with C-R Engine. Jan 1920. 15 pp., 10 figs. Distributed only upon authorization of Curtiss Engineering Corporation.
6. Report of Rolling Experiments on a Model of United States Battleships 49-54 (with and without Bilge Keels). Mar 1920. 9 pp., 6 figs.
7. Report of Rolling Experiments on a Model of Express Passenger Liner for International Mercantile Marine Co., Wm. Francis Gibbs, N.A. (Model Tested with and without Bilge Keels). Mar 1920. 6 pp., 3 figs. Distributed only upon authorization of International Mercantile Marine Co.
8. Report of Rolling Experiments on a Model Representing U.S. Collier "JUPITER" Fitted As an Aircraft Carrier. Mar 1920. 9 pp., 5 figs.
9. Report of Additional Tests of Model No. 2284 with Modifications - Representing Twin Floats for 2570-Lb. Seaplane. May 1920. 2 pp. Distributed only upon authorization of Loening Aeronautical Engineering Corporation.
10. The Measurement of Mast Vibration on the Tripod Mast during Gun Trials of the Brazilian Battleship "SÃO PAULO." May 1920. 8 pp., 3 figs.
11. Report of Test of Model No. 2294 Representing Hull of T.F. Flying Boat Modified to Carry M VII Torpedo (N.A.F. Blueprint #53006). Jun 1920. 7 pp., 4 figs.
12. Report of Test of Models No. 2239 & 2293 Representing 2600 Lb. Seaplane with Arrow-Head Float. Jun 1920. 16 pp., 11 figs.
13. Report of Rolling Experiments on Model No. 2300 Representing U.S. Collier JUPITER Fitted As an Aircraft Carrier. Jul 1920. 8 pp., 5 figs.
14. Report on the Frictional Resistance of Elaterite Marine Compound #45-A Compared with Shellac and Varnish - Paint Submitted by Elaterite Products Corporation, by L.F. Hewins. Jul 1920. 4 pp., 1 fig.
15. Report of Tests on Model of EAGLE Class Patrol Boats to Determine the Inclining Moment of Wind at Various Velocities, by L.F. Hewins. Jul 1920. 5 pp., 3 figs.
16. Report of Experiment with Proposed Hulls of Giant Flying Boat - Original and Alternate Designs. Aug 1920. 12 pp., 6 figs.

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17. Report of Test of Vertical Steering Control of U.S. Submarine S-3, Using "Drowned" Bow Rudders with Guards, from Experiments with Model No. 1966. Aug 1920. 4 pp., 2 figs.
18. Report of Rolling Experiments on Model No. 2300 Representing U.S. Aeroplane Carrier LANGLEY (Formerly U.S. Collier JUPITER). Sep 1920. 14 pp., 8 figs.
19. Report of an Analysis of the Standardization Trials of Some Recent Destroyers. Sep 1920. 5 pp., 1 fig.
20. Report of Test of Vertical Steering Control of U.S. Submarines - BB-1 to 9 (S-163-171) from Experiments with Model No. 2341. Sep 1920. 5 pp., 3 figs.
21. Report of Experiments with Twin Floats for Loening M-81 Seaplane (Original and Modified Step Position). Nov 1920. 8 pp., 5 figs. Distributed only upon authorization of Loening Aeronautical Engineering Corporation.
22. Report of Experiments with Twin Floats for Curtiss C.T. Seaplane. Jan 1921. 8 pp., 5 figs. Distributed only upon authorization of Curtiss Engineering Corporation.
23. Report of Experiments with Twin Floats for Loening M-81 Seaplane (2nd and 3rd Modifications Represented by Model 2346) (4th Modification Represented by Model 2371). Feb 1921. 13 pp., 8 figs. Distributed only upon authorization of Loening Aeronautical Engineering Corporation.
24. Preliminary Report of Resistance of Armor Bars and Gratings. Jan 1921. 14 pp., 4 figs.
25. Report of Experiments with Model 2374 - Hydrovane Wing T. Feb 1921. 2 pp., 1 fig.
26. Supplementary Report on Vertical Steering Control of U.S. Submarines S-163-171 from Experiments with Model No. 2341. May 1921. 3 pp., 2 figs.
27. Report of Tests of a Merchant Type Model Fitted with a Regenerative Propeller of the "Birkett" Type. Jun 1921. 4 pp., 2 figs.
28. Report on the Comparison of Standardization Trial Data of 35-Knot Destroyers with Data Estimated from Results of Self-Propelled Models. Jun 1921. 16 pp., 10 figs.
29. Report on Test of Torpedo Forms. Jul 1921. 7 pp., 3 figs.
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31. Report of Experiments with Junker JL-6 Twin Floats. Jul 1921. 7 pp., 5 figs.
32. TS-1 Seaplane Floats (Twin) - Report of Experiments with Model #2392. Sep 1921. 7 pp., 4 figs.

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37. Test of Experimental Air Purifier. Nov 1921. 7 pp., 4 figs.
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39. Shipboard Fighter B.S.-1 - Experiments with Modified Hull. Nov 1921. 7 pp., 5 figs.
40. W.A. Seaplane Float - Model #2393 - Report on Additional Tests. Dec 1921. 7 pp., 5 figs.
41. Report of Test of Vertical Steering Control of Ex-German Submarine U-111 - from Experiments with Model No. 2395. Jan 1922. 7 pp., 5 figs.
42. Report of Further Tests on Experimental Air Purifier. May 1922. 12 pp., 7 figs.
43. Spotting Seaplane Floats - Report of Experiments with Model #2426. May 1922. 7 pp., 5 figs.
44. Marine Expeditionary Seaplane Floats - Report of Experiments with Model #2420. May 1922. 7 pp., 5 figs.
45. Resistance of Disk Simulating Airplane Engine in Four Foot Tunnel. May 1922. 7 pp., 3 figs. This Wind Tunnel report was erroneously included in the original Experimental Model Basin series of reports.
46. School Seaplane - Type T.G. - Report of Experiments with Model #2430. May 1922. 7 pp., 5 figs.
47. Giant Flying Boat Hull - Report of Additional Experiments on Model #2244. May 1922. 7 pp., 5 figs.
49. V.T. Seaplane Floats - Triple Arrangements - Report of Experiments with Models 2426 and 2440. Jul 1922. 9 pp., 6 figs.
50. List of Models of Airplane Floats and Flying Boats Tested in the Experimental Model Basin and Available Data. May 1922. 5 pp. (128 models tested.)
51. N.C. Series - Report of Experiments with Modifications of the Hull of the N.C. Flying Boat. Jul 1922. 72 pp., 66 figs.
52. Determination of Performance Characteristics of 1/4-Horsepower Portable Ventilating Set, Including the Determination of the Air-Carrying Properties of Canvas Hose. Jul 1922. 6 pp., 2 figs.

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53. Thornycroft Skimmer - Experiments with Model 2347 As a Seaplane Float. Jul 1922. 7 pp., 5 figs.
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56. Resistance of Standard Wire Mesh Basket for Ventilation Terminals: Resistance of Wire Screen Cloth. Aug 1922. 14 pp., 7 figs.
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58. Resistance of Granular Charcoal to the Flow of Air. Aug 1922. 10 pp., 5 figs.
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64. Report of Test of Vertical Steering Control of Model of German Submarines U-181-190. Dec 1922. 5 pp., 3 figs.
65. VT Twin Floats - 5th & 6th Modifications - Report of Experiments with Models 2457 & 2458. Dec 1922. 13 pp., 9 figs.
66. Report of Tests of Propellers on Self Propelled Model of U.S.S. DELAWARE. Dec 1922. 10 pp., 8 figs. Distributed only upon authorization of N.W. Akimoff.
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69. Report of Rolling Experiments on Model No. 2375 - Representing U.S. Crane Ship No. 1. Mar 1923. 12 pp., 7 figs.
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73. Increase in Frictional Resistance of Ships Due to Lapped Butts. Mar 1923. 4 pp., 1 fig.
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76. Experiments with Models of VT-Twin Floats, Modification #1 and VT-Triple Float, Arrangement #2. Apr 1923. 11 pp., 8 figs.
77. Catapult Test, Ordnance Design, Shots 1-2-3-4. Mar 1923. 10 pp., 4 figs.
78. Catapult Test, Ordnance Design, Shots Nos. 1 to 13 Inc. Apr 1923. 36 pp., 8 figs.
79. Preliminary Design No. 25 - Hulls Nos. 1 and 2 - Report of Experiments with Model #2497. May 1923. 10 pp., 6 figs.
80. VT Twin Float Model #2426 - Experiments with and without Hydrovanes. May 1923. 13 pp., 10 figs.
81. VT Twin Floats - Modifications #7 and #8 - Experiments with Model No. 2493. Jun 1923. 9 pp., 5 figs.
82. Result of Tests of Models of a Shallow Draft River Gunboat. Jul 1923. 31 pp., 25 figs.
83. Kirsten-Boeing Propeller Company. Oct 1923.
84. DT Seaplane Floats - Results of Experiments with Modified Lines. Nov 1923. 11 pp., 6 figs.
85. NW Seaplane - Mk I Floats - Experiments with Model #2495. Nov 1923. 8 pp., 6 figs.
86. Report of Test of Vertical Steering Control of Cruiser Submarine from Experiments with Model No. 2517. Dec 1923. 8 pp., 6 figs.
87. Class VS Seaplanes for Small Vessels - Twin Floats Mark I & Mark II - E.M.B. Models 2500 & 2514. Dec 1923. 14 pp., 9 figs.
88. TS Seaplane - Experiments with Model of Mk II Twin Floats (E.M.B. Model #2494). Dec 1923. 8 pp., 6 figs.
89. PN-7 Flying Boat Hull - Experiments with Model No. 2527. Dec 1923. 9 pp., 5 figs.
90. P-5-A Flying Boat Hull - Experiments with Model No. 2525. Jan 1924. 10 pp., 6 figs.
91. Test of Venturi Tube on Ventilation Terminal. Mar 1924. 9 pp., 5 figs.
92. Vanderbilt Flying Boat - Report of Experiments with E.M.B. Model No. 2546. Mar 1924. 9 pp., 6 figs. Distributed only upon authorization of Kirkham Products Corporation.

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93. Bu. Aer. Three Seater Spotting Seaplane (Project No. 1047) - Report of Experiments with Model #2587. Sep 1924. 9 pp., 6 figs. Distributed only upon authorization of Bureau of Aeronautics.
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98. F-5-L Hull Modified - Additional Experiments with Model No. 2171. Sep 1924. 10 pp., 6 figs.
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100. TS-1 Twin Floats - N.A.F. Lines #51863 - Experiments with Model #2547. Sep 1924. 8 pp., 6 figs.
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104. Boeing Patrol Plane - Hull - Report of Experiments with Model No. 2597. Nov 1924. 10 pp., 6 figs. Distributed only upon authorization of Boeing Airplane Company.
105. UO-1 Seaplane Float - Model No. 2492; N9H Seaplane Float - Model No. 2584 - Experiments to Determine Forces and Moments at Landing Angles, Also Usual Towing Tests with the N9H Model. Nov 1924. 13 pp., 8 figs.
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108. Flettner Wind Rotors for Ship Propulsion (Estimate of Propulsive Forces Obtainable). Dec 1924. 8 pp., 2 figs.
109. Report of Test on Model of U.S.S. LANGLEY to Determine Leeway Due to Wind. Jan 1925. 6 pp., 2 figs.
110. Report on the Extent of Cavitation in U.S. Scouts & Destroyers. Jan 1925. 9 pp., 1 fig.

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111. Bu. Aer. Design No. 31 - Hull - Report on Experiments with Model No. 2588. Jan 1925. 11 pp., 6 figs.
112. Report of Test of Vertical Steering Control of U.S. Submarines R-1 to R-20 from Experiments with Model No. 2450. Feb 1925. 5 pp., 3 figs.
113. Test Float with Variable Keel Angle - Report on Experiments with Model #2602. Mar 1925. 11 pp., 5 figs.
115. Report of Test of Vertical Steering Control of Model Representing Fleet Submarine, Mine Laying Type with Alterations. May 1925. 5 pp., 3 figs.
116. The Calibration and Test of a Redesigned Sperry Roll and Pitch Recorder. Jul 1925. 18 pp., 9 figs.
117. Notes on the Design and Propulsion of the 8-Oared Shell. Aug 1925. 17 pp., 7 figs.
118. A Description of the U.S. Experimental Model Basin. Sep 1925. 14 pp., 6 figs.
119. Ventilation Tests. Oct 1925. 8 pp. Supplement. Feb 1926. 28 pp., 21 figs.
120. Boeing Patrol Plane - Report of Additional Experiments with Model No. 2597. Nov 1925. 9 pp., 6 figs. Distributed only upon authorization of Boeing Airplane Company.
121. Stability Model - U.S.S. CALIFORNIA. Nov 1925. 7 pp., 2 figs.
122. Electrical Telemeter - Principle of Operation and Notes on Methods of Use. Jan 1926. 7 pp., 3 figs.
123. S.C. Type Amphibian Floats - Report on Experiments with Model No. 2650. Jan 1926. 9 pp., 5 figs.
124. DT-2 Seaplane Floats - Concave Bottom Modifications - Report on Experiments with Model #2622. Jan 1926. 8 pp., 4 figs.
125. Tests of a Model of a High Speed Towing Target. Feb 1926. 10 pp., 4 figs.
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128. Test of Vertical Steering Control of Model Representing U.S. Submarines V-5 and V-6. Apr 1926. 7 pp., 4 figs.
129. DT-2 and SC-1 Twin Floats (Models Nos. 2394 and 2426) - Stability Tests with Flooded Compartments. Apr 1926. 6 pp., 4 figs.
130. Report of Test of Vertical Steering Control of Model No. 2449 Representing U.S. Submarines V-1 to V-3 with Modified Bow, As per C and R Sketch 08662. Apr 1926. 2 pp., 1 fig.
131. Racer Type Seaplane Floats - Report on Experiments with Models of. Jun 1926. 20 pp., 14 figs.

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132. The Estimate of Power for Ship Propulsion and the Methods Employed at the Experimental Model Basin, by Comdr. E.L. Gayhart, USN. Jun 1926. 37 pp., 17 figs.
133. Design No. 38 - Class VF Seaplane Float - Experiments with Model No. 2665. Jun 1926. 9 pp., 6 figs.
134. Consolidated Training Plane Float - Modified Lines - Report of Experiments with Model No. 2660. Jun 1926. 8 pp., 5 figs.
135. V.T. Float Series - No. 9 Floats - Experiments with Model No. 2652. Jun 1926. 8 pp., 5 figs.
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140. Analysis of the Standardization Trials of the U.S. Battleships MARYLAND, WEST VIRGINIA, and COLORADO, by Capt. William McEntee, USN. Aug 1926. 15 pp., 3 figs.
141. T3M Amphibian Floats - Additional Experiments with Modified Model. Aug 1926. 10 pp., 6 figs.
142. Experiments with Model 2696 Representing 5000-Pound Single Float. Sep 1926. 9 pp., 6 figs.
143. Design No. 58 - Class VF Seaplane - Mark I and II Floats - Experiments with a Model of. Oct 1926. 11 pp., 7 figs.
144. Design No. 58 - VF Seaplane Float - Experiments with Model of. Oct 1926. 11 pp., 5 figs.
145. Experiments with Edo Aircraft Corp. Models "Malolo" & "Turtle." Oct 1926. 11 pp., 6 figs. Distributed only upon authorization of Edo Aircraft Corporation.
146. T.S. Type Seaplane Floats - Experiments with Models of. Oct 1926. 18 pp., 13 figs.
147. The Effect of Differences of Trim upon the Propulsive Coefficient of a Vessel. Nov 1926. 10 pp., 5 figs.
148. H.A. Type Seaplane Float - Experiments with Model of. Nov 1926. 9 pp., 6 figs.
149. Ventilation Tests - Resistance of Elbows. Nov 1926. 8 pp., 4 figs.

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150. Design No. 42 - Experiments with a Model of the Hull. Dec 1926. 9 pp., 6 figs.
151. H.A. Berliner Float Models - Model Basin Tests. Dec 1926. 13 pp., 7 figs.
152. T3M Single Float, #3 Lines - Flat NC Type. Jan 1927. 10 pp., 6 figs.
153. Tests of High Speed Displacement Boats - Experiments to Determine the Feasibility of Testing with Gear 3. Jan 1927. 6 pp., 2 figs.
154. Loening Single Wheel Amphibian OA-2 - Experiments with a Model of. Jan 1927. 9 pp., 6 figs. Distributed only upon authorization of Loening Aeronautical Engineering Corporation.
155. Fokker Float Wing - Experiments with a Model of. Feb 1927. 10 pp., 6 figs.
156. NB-1 Seaplane Float - Experiments with a Model of. Feb 1927. 8 pp., 5 figs.
157. Bu. Aeronautics Design No. 28, Modified - Experiments with Model of. Feb 1927. 11 pp., 6 figs.
158. Design No. 30, Amphibian Floats - Experiments with Model of. Feb 1927. 10 pp., 6 figs.
159. Boeing Amphibian Hull - Experiments with a Model of. Feb 1927. 9 pp., 7 figs. Distributed only upon authorization of Boeing Airplane Company.
160. Reaction on Float Bottom When Making Contact with Water at High Speeds. Feb 1927. 5 pp., 3 figs.
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162. Macchi Racing Floats, 1926 - Experiments with a Model of. Apr 1927. 9 pp., 5 figs.
163. Modified 1926 Racing Floats - Experiments with a Model of. Apr 1927. 9 pp., 5 figs.
164. Loening Single-Wheel Amphibian OA-2, Modified - Experiments with a Model of. May 1927. 14 pp., 9 figs. Distributed only upon authorization of Loening Aeronautical Engineering Corporation.
165. Experiments with Edo Aircraft Corporation Models GUNARD and FLOAT E. May 1927. 9 pp., 5 figs. Distributed only upon authorization of Edo Aircraft Corporation.
166. Description of the Nine Inch Wind Tunnel Built by the Construction and Repair Department of the Washington Navy Yard for the Bureau of Aeronautics for Use at the U.S. Naval Academy. May 1927. 16 pp., 7 figs.
167. Self Propelled Model Test of Tunnel Towboat "NATCHEZ." May 1927. 3 pp. Supplementary Tests with the Model of S.S. NATCHEZ. Aug 1927. 16 pp., 13 figs. Distributed only upon authorization of Inland Waterways Corporation.

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168. S.C. Type Amphibian Floats, Mark II Lines - Experiments with a Model of. May 1927. 10 pp., 5 figs.
169. 1926 Racing Floats 2nd Modification - Experiments with a Model of. Jun 1927. 9 pp., 5 figs.
170. Experiments to Note the Effect of Varying the Depth of the Step on a Seaplane Float. Jul 1927. 18 pp., 12 figs.
171. Design No. 67 Hull - Experiments with a Model of. Jul 1927. 9 pp., 6 figs.
172. Charles Ward Hall T3M Amphibian Floats - Experiments with a Model of. Aug 1927. 12 pp., 7 figs.
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174. Brewster Floats for Model 74 - Experiments with a Model of. Aug 1927. 9 pp., 5 figs. Distributed only upon authorization of Brewster and Company.
175. T2D-1 Seaplane Floats - Brewster Model - Model Basin Experiment. Aug 1927. 9 pp., 5 figs.
176. Model Tests with Paddlewheels - Undertaken for the Office of the Chief of Engineers, U.S. Army, by K.E. Schoenherr. Sep 1927. 18 pp., 13 figs.
177. Design No. 71 Hull Lines, Class V.P. Flying Boat Hull (Project No. 1677). Oct 1927. 11 pp., 8 figs. Distributed only upon authorization of Bureau of Aeronautics.
178. Fairchild Twin Floats - Experiments with Models of. Oct 1927. 11 pp., 6 figs. Distributed only upon authorization of Fairchild Airplane Manufacturing Corporation.
179. Williams Racer Floats (Bu. Aeronautics Project No. 1746) - Experiments with a Model of. Oct 1927. 10 pp., 6 figs. Distributed only upon authorization of Bureau of Aeronautics.
180. Brewster Single Float B-301 Model Tests (Bu. Aer. Project 1743). Nov 1927. 9 pp., 6 figs. Distributed only upon authorization of Brewster and Company.
181. F7C-1 Seaplane Float - Bu. Aer. Project No. 1673 - Experiments with Model of. Nov 1927. 10 pp., 6 figs. Distributed only upon authorization of Bureau of Aeronautics.
182. Design No. 71 Hull, Class VF Flying Boat - Additional Test with Alternate Step (Project No. 1677). Dec 1927. 9 pp., 6 figs. Distributed only upon authorization of Bureau of Aeronautics.
183. Aeroplane Design No. 54 - Bureau of Aeronautics Launching Tests. Nov 1927. 7 pp., 3 figs.
184. T2D-1 Seaplane Floats - Brewster & Co. Model - Additional Experiments. Dec 1927. 5 pp., 2 figs. Distributed only upon authorization of Brewster and Company.
185. Design No. 51 Seaplane Floats - Stability Tests with Damaged Compartments. Dec 1927. 5 pp., 2 figs.

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186. O2U Amphibian Float (Bu. Aero. Project No. 1774) - Experiments with a Model of. Jan 1928. 10 pp., 6 figs. Distributed only upon authorization of Bureau of Aeronautics.
187. Report on Comparative Propeller Tests, Made in English, German and U.S. Model Basins. Jan 1928. 27 pp., 6 figs.
188. FN-7 Hull - Shoal Water Tests - Bureau of Aeronautics Project No. 1517. Mar 1928. 9 pp., 1 fig. Distributed only upon authorization of Bureau of Aeronautics.
189. Resistance of Ships in Canal Locks. Mar 1928. 9 pp., 1 fig.
190. Ventilation Tests on Ventilating Deadlights. Mar 1928. 20 pp., 11 figs.
191. Miller Corporation Amphibian Hull, Experiments with a Model of - Model 2835. Apr 1928. Distributed only upon authorization of Miller Corporation.
192. FN-7 Hull - Additional Shoal Water Tests (Width of Channel Unrestricted) - Bureau of Aeronautics Project No. 1829. May 1928. 10 pp., 6 figs. Distributed only upon authorization of Bureau of Aeronautics.
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198. Tests of Ventilation Terminals (Ezyreg and McCreery Elbows). Aug 1928. 9 pp., 4 figs.
199. Wind Deflection from the Open Windows of a Destroyer Pilot House. Aug 1928. 20 pp., 4 figs.
200. Test of Ventilation Terminals (Punkah Louvres). Sep 1928. 11 pp., 6 figs.
201. Racer Floats - Model Tests - Bu. Aer. Project No. 1874. Oct 1928. 14 pp., 9 figs. Distributed only upon authorization of Bureau of Aeronautics.
202. XPH-1 Flying Boat Hull - Model Tests - Bu. Aeronautics Project No. 1846. Oct 1928. 10 pp., 6 figs. Distributed only upon authorization of Bureau of Aeronautics.
203. Model Experiments with Seaplane Floats with Varying L/B and $B/\sqrt[3]{W}$ (B = beam; L = LWL length; W = normal displ. in lbs) - Bu. Aeronautics Project No. 1810. Oct 1928. 17 pp., 12 figs. Distributed only upon authorization of Bureau of Aeronautics.
204. Experimental Class VF Float - Model Tests - Bu. Aero. Plan No. 4447 - Project No. 1739. Oct 1928. 10 pp., 6 figs. Distributed only upon authorization of Bureau of Aeronautics.

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205. Tests of Toncan-Molybdenum Iron from Central Alloy Steel (Incorporated).
Sep 1928. 8 pp., 4 figs. Distributed only upon authorization of Central Alloy Steel Corporation.
206. 60-Inch Turret Stool Models Nos. 1-3 and 10-Inch Model No. 13. Oct 1928.
59 pp., 34 figs.
207. Design of Turret Foundations. Oct 1928. 24 pp., 3 figs.
208. Mercury Racer Floats - MK. I. Lines (Bureau of Aeronautics Project
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of Aeronautics.
209. Keystone Aircraft Corporation, Bristol, Pa. - Flying Boat Hull. Nov
1928. 9 pp., 6 figs. Distributed only upon authorization of Keystone Aircraft
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51. Electronic Methods of Observation at the David W. Taylor Model Basin. Part 3 - A Low-Frequency Transient Detector; a Depth Charge Direction Indicator, and an Electronic Voltage Regulator, by Ens. G. Robert Mezger. Dec 1941. 17 pp., 6 figs.
53. The Strength of Rigid-Frame Knees, by Dr. D.F. Windenburg. Jan 1942. 14 pp., 27 figs. A paper presented before the Washington Chapter of the American Society of Mechanical Engineers, 11 Dec 1941.
54. Electronic Methods of Observation at the David W. Taylor Model Basin. Part 2 - Measurements of Steady and Alternating Stresses in Rotating Shafts, by W.F. Curtis and W.J. Sette. Jan 1942. 12 pp., 3 figs.
56. Tentative Roughness Allowances for 1942 for Use with the Schoenherr Friction Formula. Mar 1942. 3 pp., 1 fig.
57. 5-Inch 38-Caliber Gun Foundations on Destroyers - Progress Report Describing Results of Tests during Structural Gun Firing Trials of USS ELLYSON (DD454). Mar 1942. 3 pp., 1 fig.
62. Electronic Methods of Observation at the David W. Taylor Model Basin. Part 4 - An Acoustic Analyzer, by Ens. R.W. Roop, USNR. May 1942. 40 pp., 24 figs.
63. Test of Rigid-Frame Models - Progress Report, by Comdr. W.P. Roop, USN. Jul 1942. 9 pp., 6 figs.

R- SERIES

65. Explanatory Notes to Accompany Motion Pictures of Underwater Explosions. Aug 1942. 5 pp.
66. Photographic Methods of Recording Behavior of Steel Diaphragms under Explosive Load, by Lt. D.C. Campbell, USNR, D. Bancroft, and B.L. Miller. Aug 1942. 6 pp., 5 figs.
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78. Electronic Methods of Observation at the David W. Taylor Model Basin. Part 5 - A Self-Stabilizing Amplifier, by Lt. G. Robert Mezger, USNR. Jan 1943. 5 pp., 2 figs.
79. Electronic Methods of Observation at the David W. Taylor Model Basin. Part 6 - The Application of Frequency Deviation Methods to Measurements of Mechanical Changes, by Dr. Ernst Plesset. Feb 1943. 23 pp., 18 figs.
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86. Electronic Methods of Observation at the David W. Taylor Model Basin. Part 7 - A Stable Direct-Coupled Amplifier, by Lt. G. Robert Mezger, USNR. Mar 1943. 17 pp., 8 figs.
123. Welding Test 207 - Tensile Strength of Butt Welds Made in 40-Pound Special Treatment Steel, by J.W. Day. May 1941. 37 pp., 35 figs.
128. Preparation, Labeling, and Identification of Graphs and Figures. Jun 1943. 14 pp., 12 figs. Out of print.
130. Test of Stabilizing Vanes to Reduce Rolling of Ships - Proposed by Thomas A. Edison. Mar 1918. 12 pp., 6 figs. Distributed only upon authorization of the administrators of the estate of Thomas A. Edison.
131. Report of Test of System of Using an Air Film on the Shell Plating of a Ship to Reduce Frictional Resistance - Proposed by W.H. Fauber. Apr 1918. 10 pp., 4 figs. Distributed only upon authorization of the administrators of the estate of W.H. Fauber.
132. Tests of Partially Submerged Propellers of the Sea-Sled Type. Apr 1919. 13 pp., 4 figs.

R- SERIES

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R- SERIES

201. Electronic Methods of Observation at the David W. Taylor Model Basin.
Part 8 - A High-Frequency Square-Wave Generator, by Lt. G. Robert Mezger, USNR. Feb 1944. 14 pp., 7 figs.
202. Progress Report on Underwater Explosion Research - Bureau of Ships Project E139. Feb 1944. Out of print.
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- Part 2 - The Pressure-Time Curve for Underwater Explosions of Very Small Charges of Teteryl, by M.M. Shapiro and E.T. Habib. 16 pp., 4 figs.
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207. The Brittle Failure of Medium Steel in Ship Structures, by Capt. W.P. Roop, USN. Oct 1943. 10 pp., 4 figs.
211. Index of Technical Information. Part 8 - Subject Index of Miscellaneous Technical Information in TMB File QQ/Misc. Oct 1943. 10 pp.
212. Resistance-Strain Characteristics of Stretched Fine Wires, by W.J. Sette, L.D. Anderson, and J.G. McGinley. Sep 1945. 28 pp., 13 figs.
213. The Performance of Wire-Resistance Strain Gages As Influenced by the Drying Time of Three Mounting Cements, by Dr. B.L. Miller, L.D. Anderson, and H. Shoub. Jan 1946. 22 pp., 8 figs.
214. Electronic Methods of Observation at the David W. Taylor Model Basin.
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225. Instructions for Typing and Layout of Reports and Translations. Feb 1944. 27 pp., 14 figs.

R- SERIES

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244. Progress Report on Underwater Explosion Research - Bureau of Ships Symbol E139. Apr 1944.
- Part 6 - Notes on the Shock in Ships Due to an Underwater Explosion, by Dr. E.H. Kennard. pp. 1-3.
- Part 7 - A Family of Surfaces of Revolution Representing Shapes of Deformed Circular Diaphragms, by Dr. G.E. Hudson. pp. 4-11, figs. 1-5.
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246. Experimental Determination of the Suitability of Crystal Accelerometers for Shock Measurements, by W.F. Curtis and H.L. Rich. May 1944. 6 pp., 1 fig.
248. Progress Report on Underwater Explosion Research - Bureau of Ships Symbol E139. May 1944.
- Part 10 - A Method for Determining the Energy Absorption of Thin Steel Diaphragms under Hydrostatic Pressure, by M.A. Greenfield. pp. 1-10, figs. 1-7.
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249. Welding Test 207 - Tensile Strength of Butt Welds in Special-Treatment Steel Plate, by J.W. Day. Nov 1947. 12 pp., 3 figs.
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252. A Study of the Surface Effects Caused by an Underwater Explosion. Part 1 - 1750 Pounds of Torpex near the Bottom in 40 Feet of Water, by Capt. H.E. Saunders, USN, and Lt. D.C. Campbell, USNR. Jul 1944. 16 pp., 14 figs.

R- SERIES

254. Progress Report on Underwater Explosion Research - Bureau of Ships Symbol E139. Jun 1944.
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- Part 16 - Additional Data on the Pressure-Time Curve for Underwater Explosions of Very Small Charges of Tetryl, by M.M. Shapiro and E.T. Habib. pp. 6-7, figs. 3-4.
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- Part 18 - A Theory of the Impulsive Plastic Motion of a Thin Diaphragm Normal to Its Initial Plane, by Dr. G.E. Hudson. pp. 11-30, figs. 5-10.
265. Progress Report on Underwater Explosion Research - Bureau of Ships Symbol E139. Jul 1944.
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- Part 20 - Calculation of the Principal Strains of Small, Thin Diaphragms Dynamically Loaded, by B. Stiller and A.R. Cohen. pp. 17-29, figs. 6-15.
267. Experimental and Theoretical Investigations of the Mass-Plug Accelerometer, by D.M. Smith. Mar 1946. 20 pp., 14 figs.
269. Calibration of Piezoelectric Gages at the David Taylor Model Basin, by Dr. A. Borden. Nov 1944. 20 pp., 13 figs.
271. Additional Notes on the Conditions of Fracture of Medium Steel Ship Plates, by Dr. D.F. Windenburg and Capt. W.P. Roop, USN. Jun 1945. 19 pp., 7 figs.
276. Notes on the Conditions of Brittle Rupture of Ship Plates of Medium Steel, by Capt. W.P. Roop, USN. Jul 1944. 17 pp., 5 figs.
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279. Progress Report on Underwater Explosion Research - Bureau of Ships Symbol E139. Dec 1944.
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R- SERIES

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296. Progress Report on Underwater Explosion Research - Bureau of Ships Symbol E139. Apr 1945.
- Part 24 - Analysis of the Explosion Damage from Two Small Charges Fired against the Hull of a Liberty Ship, by Dr. G.E. Hudson and Dr. M.A. Greenfield. pp. 1-15, figs. 1-15.
- Part 25 - Energy Absorption of Steel Plates of Different Thicknesses under Dynamic or Static Loading, by A.R. Cohen, Chief Specialist (X), USNR, and B. Stiller, Specialist (X) 1/c, USNR. pp. 16-23, figs. 17-22.
- Part 26 - The Resistance of Thick Fused-Quartz and Plastic Plates to Static and Underwater Explosion Pressures, by J.J. Donoghue, C.T. Johnson, and R.G. Hill. pp. 24-38, figs. 23-25.
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348. Underwater Explosion Tests of Simple Structures Fabricated with Everdur Brazing, by T.D. Tuft. Dec 1947. 29 pp., 20 figs.
349. Static Structural Tests of Eleven Lightweight Anchors, by J.G. McGinley. Jan 1948. 33 pp., 11 figs.
350. Constructive Suggestions and Inventions by Personnel in the Naval Establishment, a Reprint of ALNAV 227 dated 8 May 1946. Sep 1946. 5 pp.
351. Operating and Service Manual for the TMB Type 1A Strain Indicator, by W.S. Campbell. Jul 1947. 32 pp., 19 figs.

R- SERIES

356. Instructions for Preparing Correspondence for Duplication by the Ditto and DupliMAT Processes. May 1947. 6 pp., 2 figs.
365. The Diary of an Inspection Trip to Europe in October-December 1945, by Capt. H.E. Saunders. Jul 1947. 193 pp., 69 figs.
366. Model-Basin Tests of Floats for Astern Fueling, by P. Eisenberg. Oct 1947. 16 pp., 11 figs.

TRANSLATIONS

2. Strength of Ships [Festigkeit der Schiffe], by Felix Pietzker. Ernst Siegfried Mitgler and Son, Berlin, 1914. Unpublished. Partial Draft in TMB Translation Section.
3. New Experiences and Developments in the Technique of Ship Trials [Neue Betriebserfahrungen und Entwicklungen der Schiffbau-Versuchstechnik], by Dr. Günther Kempf. Werft-Reederei-Hafen, Vol. 11, No. 21, 1 Nov 1930, pp. 437-442. Translated by M.C. Roemer. Dec 1930. 18 pp. This is Report 275.
4. Introduction to the Theory of Elasticity [Einführung in die Elastizitätstheorie], by August Föppl. Excerpts from Vorlesungen über technische Mechanik, Vol. 3, B.G. Teubner, Leipzig and Berlin, 1923. Translated by W.P. Roop. Apr 1931. 114 pp., 27 figs. This is Report 294.
5. The Critical External Pressure of Cylindrical Tubes [Der kritische Aussendruck zylindrischer Rohre], by R. von Mises. VDI-Zeitschrift, Vol. 58, No. 19, May 1914, p. 75. Translated and annotated by D.F. Windenburg. Aug 1931. 17 pp., 8 figs. This is Report 309.
6. The Critical External Pressure of Cylindrical Tubes under Uniform Radial and Axial Load [Der kritische Aussendruck für allseits belastete zylindrische Rohre], by R. von Mises, Stodolas Festschrift, Zurich, 1929, pp. 418-430. Translated and annotated by D.F. Windenburg. Aug 1931. 19 pp., 8 figs. This is Report 366.
7. The Calculation and Measurement of Elastic Natural Frequencies of Ship Hulls [Über Rechnung und Messung der elastischen Eigenschwingungen von Schiffskörpern], by Dr.-Ing. E. Schadlofsky. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 33, 1932, pp. 280-335. Translated by R.T. McGoldrick and M.C. Roemer. Jun 1934. 55 pp., 29 figs. Also Supplement to Translation 7. Nov 1935. 15 pp., 4 figs. These are Report 382 and Supplement to Report 382.
8. On the Stability of Stiffened Plates [Über die Stabilität versteifter Platten], by Prof. S. Timoshenko. Der Eisenbau, Vol. 12, 1921, pp. 147-163. Translated and annotated by M.C. Roemer and D.F. Windenburg. Jul 1935. 23 pp., 6 figs. This is Report 402.
9. Cavitation Tests with Systematically Varied Model Propellers [Kavitationsversuche mit systematisch veränderten Propellermodellen], by Hermann Lerbs, Hamburg Model Basin. Werft-Reederei-Hafen, Vol. 13, No. 17, 1 Sep 1932, pp. 253-255. Translated by M.C. Roemer. Feb 1936. 4 pp., 4 figs.
10. On the Setting-Up of Cavitation [Zur Frage des Kavitationseintritts], by Hermann Lerbs. 80th Communication of the Hamburg Model Basin. Werft-Reederei-Hafen, Vol. 12, No. 13, 1 Jul 1931, pp. 243-244. Translated by M.C. Roemer. Feb 1936. 11 pp., 4 figs.
11. The Loading of a Ship in a Seaway [Die Beanspruchung des Schiffes im Seegang], by George Schnadel. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 37, 1936, pp. 129-152. Translated by M.C. Roemer. Jan 1936. 28 pp., 21 figs.
12. Vibration Neutralizer for Ships [Neutralizzatore di vibrazioni per navi], by Ing. Ugo Loser. Ricerche di Ingegneria, Vol. 12, No. 1, Jan-Feb 1934, pp. 28-35. Translated by R.T. McGoldrick. Jan 1936. 12 pp., 15 figs.

TRANSLATIONS

13. Recording High Frequency Vibrations by the Scratch Process [Aufzeichnen schneller Schwingungen nach dem Ritzverfahren], by Wilhelm Pabst. VDI-Zeitschrift, Vol. 73, No. 46, Nov 1929, pp. 1629-1633. Translated by M.C. Roemer. Feb 1936. 14 pp., 14 figs.
15. The Betz-Prandtl Vortex Theory of the Screw Propeller As Adapted to the Technical Method of Calculation [Die Betz-Prandtl'sche Wirbeltheorie der Treibschraube und ihre Ausgestaltung zum technischen Berechnungsverfahren], by H.B. Helmbold. Werft-Reederei-Hafen, Vol. 7, 1926, pp. 565-569, 588-595. Translated by M.C. Roemer. Feb 1936. 35 pp., 13 figs.
16. Welding in Shipbuilding [Schweissen im Schiffbau], by Hermann Lottmann. Schiffbau, Schifffahrt und Hafengebäudebau, Vol. 33, Nos. 13, 14, 15, and 16, 1932, pp. 3-31 (reprint). Translated by M.C. Roemer. Unpublished. Rough draft of text in TMB Translation Section.
17. The Problem of Strength in Any Direction in Shipbuilding [Das Raumfestigkeitsproblem im Schiffbau], by Dr.-Ing. Gustav Wrobel. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 28, 1927, pp. 447-492. Translated by M.C. Roemer. Unpublished. Rough Draft in TMB Translation Section.
18. Studies of Propeller Sections with Reduced Susceptibility to Cavitation [Untersuchungen über Propellerprofile mit herabgesetzter Kavitations-Empfindlichkeit], by H. Holl. Technische Mechanik und Thermodynamik, Forschung auf dem Gebiete des Ingenieurwesens, Vol. 3, No. 3, May-Jun 1932. Translated by M.C. Roemer. Feb 1936. 20 pp., 22 figs.
19. Analysis of Propeller Tests [Auswertung von Schraubenversuchen], by Prof. Dr.-Ing. H. Horn. Schiffbau, Schifffahrt und Hafengebäudebau, Vol. 36, No. 18, 15 Sep 1935 (reprint). Translated by M.C. Roemer. Feb 1936. 33 pp., 7 figs.
20. Experimental and Theoretical Investigation of Cavitation in Water [Experimentelle und theoretische Untersuchungen über Hohlraumbildung (Kavitation) im Wasser], by J. Ackeret. Technische Mechanik und Thermodynamik, Vol. 1, No. 1, Jan 1930, pp. 1-22, 63-72. Translated by M.C. Roemer. Feb 1936. 85 pp., 39 figs.
21. Tests of Sections under Cavitation [Profilmessungen bei Kavitation], by Otto Walchner. Hydromechanische Probleme des Schiffsantriebs, Hamburg, 1932, pp. 256-267. Translated by M.C. Roemer. Feb 1936. 19 pp., 8 figs.
22. Cavitation [Kavitation - Hohlraumbildung], by J. Ackeret. Handbuch der Experimentalphysik, Vol. 4, Part 1, pp. 463-486. Translated by M.C. Roemer. Jun 1933. 22 pp., 30 figs.
23. Results of Measurements on Propeller Sections [Ergebnisse von Messungen an Propellerprofilen], by G. Flügel. Technische Hochschule, Danzig, pp. 315-321. Hydrodynamische Probleme des Schiffsantriebs, Hamburg Congress 1932. Translated by R.C. Darnell. Jun 1933. 6 pp., 6 figs.
24. Cavitation Limits According to Series Tests [Kavitationsgrenzen Nach Serienversuchen], by Hermann Lerbs. Werft-Reederei-Hafen, Vol. 16, No. 22, 15 Nov 1935, pp. 338-340. Translated by M.C. Roemer. Jun 1936. 7 pp., 3 figs.

TRANSLATIONS

25. Principles of Testing Open Water Propellers in the H.S.V.A. Water Tunnel [Die Grundlagen der Messung freifahrender Schrauben im Kavitationstank der Hamburgischen Schiffbau-Versuchsanstalt], by Hermann Lerbs. Werft-Reederei-Hafen, Vol. 14, No. 12, 15 Jun 1933, pp. 169-172. Translated by M.C. Roemer. Jun 1936. 26 pp., 10 figs.
26. High Seas Test Trip - Oscillation and Acceleration Measurements [Hochseemessfahrt. Schwingungs- und Beschleunigungsmessungen], by H. Horn. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 37, 1936, pp. 153-213. Translated by M.C. Roemer. Jun 1936. 69 pp., 57 figs.
27. Experimental Investigation of Airfoil Sections in Grid Arrangement [Experimentelle Untersuchung eines Tragflügelprofils bei Gitteranordnung], by K. Christiani. Report of Aerodynamic Laboratory of Kaiser Wilhelm Institute. Luftfahrtforschung, Vol. 2, No. 4, 27 Aug 1928, pp. 1-110. Translated by M.C. Roemer. Jun 1936. 73 pp., 37 figs.
28. The Stress Distribution in the Flanges of Thin-Walled Box Girders [Die Spannungsverteilung in den Flanschen dünnwandiger Kastenträger], by Dr.-Ing. George Schnadel. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 27, 1926, pp. 206-291. Translated and annotated by D.F. Windenburg and E.G. Ebel. Jun 1936. 83 pp., 27 figs.
29. Recent Experimental Contributions to the Buckling Problem [Neuere experimentelle Beiträge zur Frage der Knickfestigkeit], by K. Memmler. Proceedings of the Second International Congress for Applied Mechanics, Zurich, 12-17 Sep 1926, pp. 357-363. Unpublished. Rough Draft in TMB Translation Section.
30. Theory and Design of Compression Members [Theorie und Berechnung der eisernen Brücken], by Dr.-Ing. Friedrich Bleich. Julius Springer, Berlin, 1924. Translated by M.C. Roemer. Annotated by D.F. Windenburg and J.M. Frankland. Jan 1942. iii, 50 pp., 32 figs.
31. The Buckling of Stiffened Plates in Shear [Das Ausknicken versteifter Bleche unter Schubbeanspruchung], by C. Schmieden, Zeitschrift für Flugtechnik und Motorluftschiffahrt, Vol. 21, No. 3, 1930, pp. 61-65. Translated by M.C. Roemer. Jun 1936. 12 pp., 4 figs.
32. On the Buckling of Plates [Über die Knickung von Platten], by Dr.-Ing. George Schnadel. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 30, 1929, pp. 170-194. Translated by M.C. Roemer. Feb 1938. 18 pp., 9 figs.
33. On Stability Problems in Thin Cylindrical Shells [Über Stabilitätsprobleme dünner Kreiszyklindrischer Schalen], by K. von Sanden and F. Tolke. Ingenieur-Archiv, Vol. 3, 1932, pp. 24-66. Unpublished. Rough draft of text in TMB Translation Section.
34. The Economic Propulsion of Ships [Wirtschaftlicher Schiffsantrieb], by Dr.-Ing. Günther Kempf. VDI-Zeitschrift, Vol. 71, No. 30, 23 Jul 1927, pp. 1049-1052. Jun 1936. 13 pp., 7 figs.
35. Local Control of Wake [Örtliche Nachstromregelung], by Dr.-Ing. Günther Kempf. Werft-Reederei-Hafen, Vol. 1, No. 24, 1920, pp. 550-554. Translated by M.C. Roemer. Jun 1936. Out of print.

TRANSLATIONS

36. Notes on the Theory of Propellers. Calculation of Torques and Thrust, Determination of Local Pressures, Predicting Cavitation [Note sur la theorie des helices. Calcul des couples et des poussées], by Roger Brard. Bulletin de l'Association Technique Maritime et Aéronautique, No. 36, 1932, pp. 713-748. Translated by M.C. Roemer. Jun 1936. 13 pp.
37. Scale Effect in Model Propeller Experiments [Kennwerteinflüsse bei Schiffsschrauben Modellversuchen], by Fritz Gutsche. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 37, 1936, pp. 277-279. Translated by M.C. Roemer. Jun 1936. 23 pp., 13 figs.
39. Reduction of Disturbing Vibration of Shaft Bearings for a Constant Exciting Frequency [Die Beruhigung störend Schwingender Wellenlager bei konstanter Erregerfrequenz], by Erich Hahnkamm. Annalen der Physik, Vol. 14, 1932, pp. 683-698. Translated by R.T. McGoldrick. Oct 1936. 15 pp., 10 figs.
40. Reduction of Foundation Vibration for a Variable Exciting Frequency [Die Dämpfung von Fundamentalschwingungen bei veränderlicher Erregerfrequenz], by Erich Hahnkamm. Ingenieur-Archiv, Vol. 4, 1933, pp. 192-201. Translated by R.T. McGoldrick. Oct 1936. 15 pp., 10 figs.
41. Anomalies in the Propagation of Sound Waves of High Amplitude [Anomalia nella propagazione di onde acustiche di grande ampiezza], by E.F. Ghiron. Excerpt from Alta Frequenza, Vol. 4, No. 5, 1935, pp. 3-54. Unpublished. Rough draft, lacking equations, in TMB Translation Section.
42. Investigations of Ships in Steering Maneuvers [Untersuchungen an Schiffen bei Rudermanövern], by Dr.-Ing. K. Fischer. Werft-Reederei-Hafen, Vol. 17, Nos. 7, 8, 9, 10, and 11, 1 Apr to 1 Jun 1936, pp. 81-86, 102-106, 116-119, 159-161, 166-169. Translated by M.C. Roemer. Dec 1936. 43 pp., 24 figs.
43. On Photomechanical Printing (Diazotype) [Iets over Lichtdrukken; Diazo-typie], by P. Cohen Henriquez. Chemisch Weekblad, Vol. 33, No. 16, Apr 1936, pp. 242-246. Translated by M.C. Roemer. Unpublished. Rough draft, lacking formulas and illustrations, in TMB Translation Section.
45. Elasticity, Theory and Research [Elastizitätstheorie und Versuch], by Prof. Dr.-Ing. George Schnadel. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 32, 1931, pp. 153-181. Unpublished. Rough draft, lacking equations, tables, and illustrations, in TMB Translation Section.
48. Advances in the Theory of Flow in Mechanical Engineering and Shipbuilding [Fortschritte der Strömungslehre im Maschinenbau und Schiffbau], by H. Föttinger. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 25, 1924, pp. 295-344. Unpublished. Rough draft in TMB Translation Section.
49. In the Field of Explosives - The New Primers [Nel campo degli esplosivi - i nuovi innescenti], by F. Grottanelli. La Chimica e l'Industria, Vol. 18, No. 5, May 1936, pp. 232-235. Translated by M.C. Roemer. Unpublished. Rough draft in TMB Translation Section.
50. The Effective Width in Box Girders and in the Double Bottom [Die mittragende Breite in Kastenträgern und im Doppelboden], by Dr.-Ing. George Schnadel. Werft-Reederei-Hafen, Vol. 9, No. 5, 7 Mar 1928, pp. 92-101. Translated by M.C. Roemer and annotated by R.D. Conrad and D.F. Windenburg. Jan 1938. 37 pp., 8 figs.

TRANSLATIONS

51. Theory and Practice of Vibration Testing Machines [Theorie und Praxis der Schwingungsprüfmaschinen], by Dr.-Phil. Wilhelm Späth. Julius Springer, Berlin, 1934, 98 pp. Translated by M.C. Roemer and R.T. McGoldrick. Mar 1938. 94 pp., 48 figs.
52. Calculation of Rudder Force [Berechnung der Ruderkraft], by Dr.-Ing. K. Fischer. Werft-Reederei-Hafen, Vol. 19, No. 17, 1 Sep 1938, pp. 259-261. Translated by M.C. Roemer. Nov 1938. 8 pp., 3 figs.
53. Investigations of Pressure and Flow on a Ship Model [Untersuchungen über Druck und Strömungsverlauf an einem Schiffsmodell], by Dr.-Ing. Wilmar Laute. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 34, 1933, pp. 403-460. Translated by M.C. Roemer and annotated by R.D. Conrad. Mar 1939. 71 pp., 49 figs.
54. Roughness and Scale Effect on Marine Propellers [Rauheits- und Kennzahlfluss bei Schiffsschrauben], by Dr.-Ing. Günther Kempf. Werft-Reederei-Hafen, Vol. 19, No. 11, 1 Jun 1938, pp. 145-148. Translated by M.C. Roemer and annotated by R.D. Conrad. Nov 1939. 8 pp., 4 figs.
55. On the Theory of Steering Processes in Ships [Zur Theorie des Steuervorganges bei Schiffen], by W. Kucharski. Werft-Reederei-Hafen, Vol. 13, No. 3, 1 Feb 1932, pp. 35-42. Translated by M.C. Roemer. Nov 1939. 24 pp., 4 figs.
56. Ship Resistance in Water of Limited Depth - Resistance of Seagoing Vessels in Shallow Water [Schiffswiderstand auf beschränkter Wassertiefe - Widerstand von Seeschiffen auf flachem Wasser], by Otto Schlichting. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 35, 1934, pp. 127-148. Translated by M.C. Roemer. Jan 1940. 26 pp., 17 figs.
57. Wake Measurement with Ship Models [Mitstrommessung an Schiffsmodellen], by C.W. Prohaska and W.P.A. van Lammeren. Schiffbau, Schiffahrt und Hafenaufbau, Vol. 38, No. 16, 15 Aug 1937, pp. 257-262. Translated by M.C. Roemer. Aug 1940. 10 pp., 6 figs.
58. Measurement and Evaluation of Propeller Thrust [Messung und Wertung des Propellerschubes], by Reinhold Schulze. Werft-Reederei-Hafen, Vol. 14, No. 21, 1 Nov 1933, pp. 303-304. Unpublished. Rough draft in TMB Translation Section.
59. Recent Measurement of Propeller Thrust [Neuere Messungen des Propellerschubes], by Dr. G. Bauer. Werft-Reederei-Hafen, Vol. 2, No. 23, 7 Dec 1921, pp. 718-720. Translated by M.C. Roemer. Oct 1942. 4 pp.
60. Experimental Definition of Wake [Définition expérimentale du sillage], by E.G. Barrillon. Report of Paris Model Basin. Translated by F.A. Raven. Oct 1942. 11 pp., 1 fig.
61. Correlation of Model Tests and Full-Scale Trials [La Mise en parallèle des essais de modèles et des essais à la mer], by E.G. Barrillon. Bulletin de l'Association Technique Maritime et Aéronautique, No. 29, Session de 1925, pp. 339-388. Also reprint from Bulletin, May 1925, 49 pp. Translated by F.A. Raven. Unpublished. 38 pp., 11 figs. Reference copy available only in TMB Library.

TRANSLATIONS

62. Thrust Deduction [Vom Sog], by Dr.-Ing. H.M. Weitbrecht. Schiffbau, Schiffahrt und Hafengebäudebau, Vol. 39, No. 11, 1 Jun 1938, p. 180. Translated by M.C. Roemer. Sep 1940. 3 pp.
63. The Central Test Station Aboard the S.S. NJASSA [Zentral-Messzelle NJASSA], by Dr.-Ing. H. Hoppe. Werft-Reederei-Hafen, Vol. 19, No. 14, 15 Jul 1938, pp. 217-222. Translated by M.C. Roemer. May 1940. 14 pp., 22 figs.
65. Dynamic Stress Measurements [Dynamische Spannungsmessungen], by Dr.-Ing. S. Berg. VDI-Zeitschrift, Vol. 81, No. 10, 6 Mar 1937, pp. 295-298. Translated by M.C. Roemer. Jan 1942. 8 pp., 13 figs.
67. Results of a Series of Tests with a Wholly and Partially Roughened Ship Model [Ergebnisse aus einer Versuchsreihe, ausgeführt mit einem ganz und teilweise rauhgemachten Schiffmodell], by Dr.-Ing. W.P.A. van Lammeren. Reprint from Schiffbau, Schiffahrt und Hafengebäudebau, Vol. 39, No. 11, 1938. Translated by M.C. Roemer. Jan 1942. 9 pp.
68. Analysis of Propulsion Components in Relation to Scale Effect by Means of Model Tests [Zerlegung der Antriebskomponenten in Abhängigkeit vom Maßstabseinfluss mit Hilfe von Schiffmodellversuchen], by Dr.-Ing. W.P.A. van Lammeren. Werft-Reederei-Hafen, Vol. 19, No. 17, 1 Sep 1938, pp. 261-265. Unpublished. Rough draft in TMB Translation Section.
69. Hull Form of Minimum Resistance [Forme de carene de moindre résistance], by V. Yourkevitch, Naval Architect. Bulletin de l'Association Technique Maritime et Aéronautique, No. 36, 1932, pp. 687-711. Unpublished. Rough draft in TMB Translation Section.
72. Analysis of Several Wake Tests with a Ship Model [Analyse einiger Mitstrommessungen an einem Schiffmodell], by Dr.-Ing. W.P.A. van Lammeren. Reprint from Schiffbau, Schiffahrt und Hafengebäudebau, Vol. 39, No. 19, 1 Oct 1938, pp. 343-350. Translated by M.C. Roemer. Jun 1942. 15 pp., 12 figs.
74. Theory of Notch Stresses: Principles for Exact Stress Calculation [Kerbspannungslehre, Grundlagen für genaue Spannungsrechnung], by H. Neuber. Julius Springer, Berlin, 1937, pp. 1-160. Translated by F.A. Raven and annotated by J.S. Brock. Nov 1945. 180 pp., 106 figs.
75. Resistance and Stability Tests with Three Trawler Models [Widerstands- und Stabilitätsversuche mit drei Fischdampfermodellen], by W. Graff and E. Heckscher. Werft-Reederei-Hafen, Vol. 22, No. 8, 15 Apr 1941, pp. 115-120. Translated by F.A. Raven. Jun 1942. 15 pp., 8 figs.
76. On the Load Capacity of a Longitudinally Stressed Plate Panel after the Buckling Load Has Been Exceeded [Über die Tragfähigkeit eines längsbelasteten Plattenstreifens nach Überschreiten der Beullast], by K. Marguerre and E. Trefftz. Zeitschrift für angewandte Mathematik und Mechanik, Vol. 17, No. 2, Apr 1937, pp. 85-100. Unpublished. Reference copy available in TMB Translation Section.
77. Practical Methods of Solving Equations [Praktische Verfahren der Gleichungsauflösung], by R. von Mises and H. Pollaczek-Geiringer. Zeitschrift für angewandte Mathematik und Mechanik, Vol. 9, No. 1, Feb 1929, pp. 58-77, and No. 2, Apr 1929, pp. 152-164. Unpublished. Rough draft in TMB Translation Section.

TRANSLATIONS

78. Buckling Stresses of Rectangular Plates with Longitudinal Stiffeners under Uniform Compression [Beulspannungen von Rechteckplatten mit Längssteiffen bei gleichmässiger Druckbeanspruchung], by Dipl.-Ing. Rudolf Barbré. Der Bauingenieur, Vol. 17, No. 25/26, 26 Jun 1936, pp. 268-273. Translated by M.C. Roemer. Jul 1943. 16 pp., 7 figs.
79. The General Stability Problem of a Compressed Plate Stiffened with Angles at Its Edges [Das allgemeine Stabilitätsproblem der gedrückten, durch Randwinkel verstärkten Platte], by E. Chwalla. Ingenieur-Archiv, Vol. 5, 1934, pp. 65-65. Unpublished. Rough draft, with incomplete equations, in TMB Translation Section.
81. The Establishment of a Modern Naval Experimental Station [Über die Einrichtungen einer modernen Schiffbautechnischen Versuchsanstalt], by Dr.-Ing. Friedrich Gebers, Vienna. De Ingenieur, No. 13, 31 Mar 1928, p. 107. Unpublished. Rough draft of text in TMB Translation Section.
82. Remodeling Fighting Ships [Der Umbau von Kriegsschiffen], by H. Evers. Werft-Reederei-Hafen, Vol. 15, No. 6, 15 Mar 1934, p. 75. Unpublished. Rough draft in TMB Translation Section.
83. New Viewpoints in the Design of Ship Rudders [Neuere Gesichtspunkte für den Entwurf von Schiffsrudern], by Dr.-Ing. W. Kucharski. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 32, 1931, pp. 206-257. Unpublished. Rough draft in TMB Translation Section.
84. On Ship Resistance in Shallow Water [Über Schiffswiderstand auf beschränkter Wassertiefe], by Dr.-Ing. H.M. Weitbrecht. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 21, 1920, pp. 122-160. Unpublished. Rough draft in TMB Translation Section.
85. The Distribution of the Displacement Flow around the Hull of a Ship [Die Verteilung der Verdrängungsströmung neben der Schiffswand], by Hermann Lerbs. Werft-Reederei-Hafen, Vol. 9, No. 13, 7 Jul 1928, pp. 263-266. Translated by R.C. Darnell. Nov 1943. 10 pp., 4 figs.
86. Some Contemporary Problems of Aerodynamics [Quelques problèmes actuels de l'aérodynamique], by Theodore von Kármán. Journées Techniques Internationales de l'Aéronautique, 28 Nov and 2 Dec 1932. Chambre Syndicale des Industries Aéronautiques, Paris. Translated by M.C. Roemer. Jan 1944. 22 pp., 15 figs.
87. The Naval Experimental Station at Lichtenrade [Die Marineversuchsanstalt in Lichtenrade], by Otto Schlichting. VDI-Zeitschrift, Vol. 67, No. 16, 21 Apr 1923, pp. 385-389. Unpublished. Rough draft in TMB Translation Section.
88. Motor Torpedo Boats - Schnellboote [Motortorpedoboote - Schnellboote], by Dipl.-Ing. Wilhelm Hädeler. VDI-Zeitschrift, Vol. 83, No. 32, 12 Aug 1939, pp. 917-924. Translated by M.C. Roemer. Jan 1940. 18 pp., 15 figs.
89. New Cavitation Research [Neue Kavitationsversuche], by Dr. Hermann Lerbs. Werft-Reederei-Hafen, Vol. 20, No. 16, 15 Aug 1939, pp. 258-260. Translated by L. Rubinowitz. Jan 1940. 4 pp., 2 figs.

TRANSLATIONS

90. The Development of Ship Model Testing Since 1900 [Die Entwicklung des Schiffbauversuchswesens seit der Jahrhundertwende unter besonderer Berücksichtigung der deutschen Institute], by Dr.-Ing. Günther Kempf. Werft-Reederei-Hafen, Vol. 20, No. 15, 1 Aug 1939, pp. 235-239. Translated by M.C. Roemer. May 1940. 12 pp., 2 figs.
91. Results of Full-Scale Propeller Tests on S.S. TANNENBERG [Ergebnisse Naturgrosser Schraubenversuche auf Dampfer "Tannenberg"], by Dr.-Ing. Günther Kempf. Werft-Reederei-Hafen, Vol. 20, No. 12, 15 Jun 1939, pp. 167-174. Translated by M.C. Roemer. Jul 1941. 18 pp., 18 figs.
92. Recent Tests of the Tensile Strength of Ship Members [Neue Versuche über Zugfestigkeit von Schiffsverbänden], by Prof. Dr.-Ing. George Schnadel. Werft-Reederei-Hafen, Vol. 20, No. 16, 15 Aug 1939, pp. 256-258. Translated by M.C. Roemer. Dec 1941. 7 pp., 4 figs.
93. Effect of Welding Conditions on the Warping of Girders with Off-Center Welds [Einfluss der Schweissbedingungen auf die Trägerkrümmung bei aussermittiger Schweissung], by Dr.-Ing. R. Malisius. Elektroschweissung, Vol. 11, No. 8, 1940, pp. 131-134. Translated by M.C. Roemer. Jul 1941. 12 pp., 9 figs.
94. The Entropy Diagrams of Internal Combustion Engines Including Gas Turbines [Die Entropie-Diagramme der Verbrennungsmotoren einschliesslich der Gasturbine], by Dipl.-Ing. P. Ostertag. Julius Springer, Berlin, 1928. Translated by W.J. Quentin, Bureau of Yards and Docks. Oct 1941. ii, 73 pp., 16 figs.
95. Sealed Contact Joints in Stationary Machine Parts [Berührungsdichtungen an ruhenden Maschinenteilen], by Karl Trutnovsky. VDI-Zeitschrift, Vol. 84, No. 17, 27 Apr 1940, pp. 277-282. Translated by Marion Saunders and M.C. Roemer. Nov 1941. 14 pp., 27 figs.
96. A New Torsiograph Suitable for High RPM's [Ein neuer für hohe Drehzahlen geeigneter Torsiograph], by Dr.-Ing. J. Geiger. Werft-Reederei-Hafen, Vol. 21, No. 10, 15 May 1940, pp. 132-135. Translated by F.A. Raven. Dec 1941. 8 pp., 14 figs.
97. Contribution to Strength Testing on Ships Underway [Beitrag zur Festigkeitsmessung am fahrenden Schiff], by Dr. W. Dahlmann and Ing. K. Remmers. Schiffbau, Schifffahrt und Hafenaufbau, Vol. 41, No. 1, 1 Jan 1940, pp. 6-12. Translated by M.C. Roemer. Jan 1942. 12 pp., 9 figs.
98. Variable Pressure Water Tunnel - Netherlands Model Testing Basin [De Cavitatietank. Excerpt from "Inrichting en Bedrijf van het Neederlandsch Scheepshouwkundig Proefstation"], by Dr.-Ing. J.G. Koning, Report 47 of the Netherlands Model Basin, Marineblad, Jun 1941. Translated by F.A. Raven. Dec 1941. 5 pp., 1 fig.
99. The Effectiveness of Fillers in Double Walls against Penetration of Air-Borne Sound [Die Wirksamkeit von Füllstoffen in Doppelwänden gegen den Durchgang von Luftschall], by A. Jacobsen. Der Bauingenieur, Vol. 20, No. 47/48, 5 Dec 1939, pp. 572-576. Translated by M.C. Roemer. Jun 1942, 10 pp., 8 figs.

TRANSLATIONS

100. Prediction of the Movements of Large Ships in Launching [Vorausbestimmung der Bewegungsvorgänge beim Stapellauf grosser Schiffe], by Henry Stemmer. Schiffbau, Schifffahrt und Hafenaufbau, Vol. 41, No. 17, 1 Sep 1940, pp. 229-234. Translated by F.A. Raven. May 1942. 12 pp., 7 figs.
101. Lightweight Steel Design of Machine Tools [Stahlleichtbau bei Werkzeugmaschinen], by Dr.-Ing. C. Krug. VDI-Zeitschrift, Vol. 84, No. 1, 6 Jan 1940, pp. 11-16. Translated by F.A. Raven. Jul 1942. 13 pp., 20 figs.
102. The Determination of Pressure in Atmospheric Shock Waves Due to Blasting and the Firing of Guns [Untersuchungen zur Bestimmung des Druckes in den beim Sprengen und Schiessen entstehenden Luftstosswellen], by Wilhelm Schneider. Zeitschrift für das gesamte Schiess- und Sprengstoffwesen, Aug to Dec 1939, pp. 230-331. Translated by F.A. Raven. Apr 1943. v, 32 pp., 20 figs.
103. Elastic Stresses in a Plane System with a Reinforced Opening [Sollecitazioni elastiche di un sistema piano con foro rinforzato], by L. Sobrero. Classe di Scienze Fisiche, Matematiche e Naturali, Vol. 10, No. 4, 1939, pp. 105-141. Translated by F.A. Raven. Annotated by J.S. Brock. Unpublished. 35 pp., 16 figs. Reference copy available only in TMB Library.
104. The Effect of Rest Periods on the Time and Fatigue Strengths of Metallic Materials [Der Einfluss von Betriebspausen auf die Zeit- und Dauerfestigkeit metallischer Werkstoffe], by Franz Bollenrath and H. Cornelius. VDI-Zeitschrift, Vol. 84, No. 18, 4 May 1940, pp. 295-299. Translated by F.A. Raven. Oct 1942. vi, 14 pp., 19 figs.
105. Launching of the Battleship SCHARNHORST [Ablauf des Schlachtschiffes SCHARNHORST], by F. Riecke. VDI-Zeitschrift, Vol. 81, No. 13, 27 Mar 1937, p. 372. Translated by F.A. Raven. Oct 1942. 3 pp., 2 figs.
106. Stopping and Reversing of Marine Engines [Abstoppen und Umsteuern von Schiffsmaschinenanlagen], by Dr.-Ing. F. Schmidt. Werft-Reederei-Hafen, Vol. 21, No. 18, 15 Sep 1940, pp. 231-235. Translated by F.A. Raven. Unpublished. 15 pp., 8 figs. Reference copy available only in TMB Library.
108. On the Size of Gas Bubbles and Droplets in Liquids [Über die Grösse von Gasblasen und Flüssigkeitströpfchen in Flüssigkeiten], by Siegfried Halberstadt and Paul H. Prausnitz. Zeitschrift für angewandte Chemie, Vol. 43, 1930. Translated by F.A. Raven. Mar 1943. 1, 19 pp., 8 figs.
109. Natural Vibration and Damping of Gas Bubbles in Liquids [Eigenschwingung und Dämpfung von Gasblasen in Flüssigkeiten], by Erwin Meyer and Konrad Tamm. Akustische Zeitschrift, Vol. 4, No. 3, May 1939. Translated by F.A. Raven. Apr 1943. 12 pp., 8 figs.
110. The Size of Gas Bubbles in Liquids [Die Grösse von Gasblasen in Flüssigkeiten], by Robert Schnurmann. Zeitschrift für physikalische Chemie, Vol. 143, Nos. 5 and 6, Sep 1929, pp. 456-474. Translated by F.A. Raven. Mar 1943. 18 pp., 2 figs.
111. On the Size of Gas Bubbles in Liquids [Über die Grösse von Gasblasen in Flüssigkeiten], by Robert Schnurmann. Kolloid-Zeitschrift, Vol. 80, No. 2, Aug 1937. Translated by F.A. Raven. Apr 1943. 6 pp., 3 figs.

TRANSLATIONS

112. On Disperse Gases [Über Disperse Gase], by Rudolph Auerbach. Kolloid-Zeitschrift, Vol. 77, No. 2, Nov 1936. Translated by F.A. Raven. Unpublished. 10 pp., 14 figs. Reference copy available only in TMB Library.
113. Disperse Gases, I: Thermodynamics and Production [Disperse Gase I: Thermodynamik und Herstellung], by Rudolph Auerbach. Forschungs-Institut der AEG, Kolloid-Zeitschrift, Vol. 74, No. 2, Feb 1936, pp. 129-138. Translated by F.A. Raven. Unpublished. 15 pp., 19 figs. Reference copy available only in TMB Library.
114. Disperse Gases, II: General Properties of Gas Dispersions [Disperse Gase II: Allgemeine Eigenschaften von Gasdispersionen], by Rudolph Auerbach. Kolloid-Zeitschrift, Vol. 80, No. 1, Jul 1937, pp. 27-31. Translated by F.A. Raven. Unpublished. 8 pp. Reference copy available only in TMB Library.
115. Disperse Gases, III: Bubble Size and Time of Rise [Disperse Gase III: Blasengrösse und Aufstiegzeit], by W. Luchsinger. Kolloid-Zeitschrift, Vol. 81, No. 2, Nov 1937, pp. 180-182. Translated by F.A. Raven. Unpublished. 5 pp., 2 figs. Reference copy available only in TMB Library.
116. Pressure Distribution on Gable and Hip-Roofs [Druckverteilung an Giebel- und Walmdächern], by Prof. Dr.-Ing. H. Müller. Der Bauingenieur, Vol. 20, No. 25/26, 30 Jun 1939, pp. 343-347. Translated by B.A. Wiener. Nov 1939. 10 pp., 10 figs.
117. Concerning an Instrument for Determining the Pressure and the Direction of Velocity in a Fluid [Sur un appareil permettant de déterminer le module et la direction de la vitesse dans un fluide], by J. Kampe de Fériet, A. Martinot-Lagarde, and G. Rollin. Excerpt from Comptes Rendus des Séances de l'Académie des Sciences, Meeting of Nov 1938. Translated by M.C. Roemer. Jan 1943. 4 pp.
118. Experimental Determination of the Hydrodynamic Increase in Mass in Oscillating Bodies [Die experimentelle Bestimmung des hydrodynamischen Massenzuwachses bei Schwingkörpern], by Rolf Brähmig. Schiffbau, Schiffahrt und Hafenbau, Vol. 41, No. 11, 1 Jun 1940, pp. 159-163, and No. 12, 15 Jun 1940, p. 173. Translated by F.A. Raven. Nov 1943. 22 pp., 8 figs.
120. Recent Applications of the Piezo-Electric Measuring Methods in Ballistics [Neuere Anwendungen des piezoelectrischen Messverfahrens in der Ballistik], by H. Illgen. Zeitschrift für technische Physik, Vol. 18, No. 11, Nov 1937. Translated by F.A. Raven. Oct 1943. 6 pp., 6 figs.
121. Multiple-Spark Photography of Explosive Phenomena by Toepler's Shimmer Method [Mehrfachfunkenaufnahmen von Explosionsvorgängen nach der Toepplerschen Schlierenmethode], by Dr.-Ing. Werner Lindner. Forschungsarbeiten auf dem Gebiete des Ingenieurwesens, Bulletin 326, Berlin, 1930, 18 pp. Translated by F.A. Raven and annotated by J.S. Brock. Unpublished. 1, 35 pp., 31 figs. Reference copy available only in TMB Library.
122. Factors Affecting the Time and Fatigue Strength of Materials [Einflüsse auf die Zeit- und Dauerfestigkeit der Werkstoffe], by Franz Bollenrath. Luftfahrtforschung, Vol. 17, No. 10, 1940, pp. 320-328. Translated by F.A. Raven. Apr 1944. 19 pp., 24 figs.

TRANSLATIONS

123. The "Singing" of Ships' Propellers [Das Singen von Schiffsschrauben], by Dr.-Ing. Fritz Gutsche. VDI-Zeitschrift, Vol. 81, No. 27, 3 Jul 1937, pp. 822-823. Translated by F.A. Raven. Unpublished. 4 pp., 2 figs.
Reference copy available only in TMB Library.
124. Graphic Integrator and Differentiator for Ship Calculations [Graphischer Integrator und Differentiator für Schiffsberechnungen], by David L. Evans. Werft-Reederei-Hafen, Vol. 18, No. 21, 1 Nov 1937, pp. 312-314. Translated by M.C. Roemer. Nov 1942. 6 pp., 8 figs.
125. On the Colloidal Physics of Disperse Gases [Zur Kolloidphysik Disperser Gase], by Rudolph Auerbach. Zeitschrift für technische Physik, Vol. 19, No. 12, 1938. Translated by F.A. Raven. Jul 1943. 3 pp.
126. Produce Good Translations [Schafft gute Übersetzungen]! From Die Photographische Industrie, Vol. 28, No. 12, 19 Mar 1930, p. 334. Translated by F.A. Raven. Unpublished. 4 pp. Reference copy available only in TMB Library.
127. Definition of Conditions for Testing Self-Propelled Models [Definitie van de voorwaarden voor het model met eigen voortstuwing]. Report No. 25, Nederlandsch Scheepsbouwkundig Proefstation, Wageningen, 1937. Unpublished. Rough draft in TMB Translation Section.
128. Motorship Oranje of the Nederland Line [Motorfahrgastschiff Oranje der Stoomvaart Mij. "Nederland"]. Werft-Reederei-Hafen, Vol. 20, No. 20, 15 Oct 1939, pp. 316-323. Translated by M.C. Roemer. Nov 1939. 3 pp.
129. Advances in Anchor Design [Fortschritte im Ankerbau]. Schiffbau, Schifffahrt und Hafenbau, Vol. 40, No. 15, 1 Aug 1939, pp. 284-286. Translated by M.C. Roemer. Nov 1939. 3 pp., 3 figs.
130. On the Induced Current and Torque of the Disk of an Alternating Current Meter, i.e., a Watt-Hour Meter [Über die induzierte Strömung und das Drehmoment bei der Scheibe eines Wechselstrommotorzählers], by W. Rogowski. Archiv für Elektrotechnik, Vol. 1, No. 5, 1912, pp. 205-232. Translated by F.A. Raven. Unpublished. 56 pp., 1 fig. Reference copy available only in TMB Library.
131. Effect of Cavitation on the Output of Ship Propellers [Einfluss der Kavitation auf die Leistung von Schiffsschrauben], by A. Betz. Proceedings of the Third International Congress for Applied Mechanics, Vol. 1, pp. 411-416. Stockholm, 1930. Translated by F.A. Raven. Unpublished. 9 pp., 9 figs. Reference copy available only in TMB Library.
132. Speed of Rise of Air Bubbles in Liquids [Steiggeschwindigkeit von Luftblasen in Flüssigkeiten], by T. Bryn. Forschung 4, No. 1, Jan/Feb 1933. Also a digest in VDI-Zeitschrift, Vol. 77, No. 6, 11 Feb 1933, p. 158. Translated by F.A. Raven. Unpublished. 10 pp., 6 figs. Reference copy available only in TMB Library.
133. Erosion by Cavitation and by the Impact of Drops of Liquid [La Corrosion par cavitation et par choc de gouttes liquides], by P. de Haller. Schweizer Archiv für angewandte Wissenschaft und Technik, Vol. 6, No. 3, Mar 1940. Translated by F.A. Raven. Unpublished. 22 pp., 26 figs. Reference copy available only in TMB Library.

TRANSLATIONS

134. The Optimum Thrust Distribution in Propellers [Die günstigste Schubverteilung bei Propellern], by Dr.-Ing. G. Flügel. Schiffbau, Schifffahrt und Hafenaufbau, Vol. 41, No. 8, pp. 108-112, 15 Apr 1940, and No. 18, pp. 250-252, 15 Sep 1940. Translated by F.A. Raven. Unpublished. 19 pp., 5 figs. Reference copy available only in TMB Library.
135. Plates under Lateral Impact [Platten unter seitlichem Stoss], by K. Karas. Ingenieur-Archiv, Vol. 10, 1939. Translated by F.A. Raven. Unpublished. 17 pp., 3 figs. Reference copy available only in TMB Library.
136. Production of Ocean Waves to Scale in Model Tests. 59th Report of the Hamburg Model Basin [Die Erzeugung Maszstäblicher Meereswellen bei Modellversuchen. 59. Mitteilung der Hamburgischen Schiffbau-Versuchsanstalt. G.m.b.H.], by Dr.-Ing. Günther Kempf and H. Hoppe. Werft-Reederei-Hafen, Vol. 10, No. 10, 22 May 1929, pp. 192-196. Translated by F.A. Raven. Unpublished. 14 pp., 18 figs. Reference copy available only in TMB Library.
137. Cataphoresis of Gas Bubbles [Kataphorese von Gasblasen], by Alfred Klemm. Physikalische Zeitschrift, Vol. 39, No. 22, 15 Nov 1938, pp. 783-793. Translated by F.A. Raven. Unpublished. 17 pp., 1 fig. Reference copy available only in TMB Library.
138. On the New Photolith Method [Über den neuen Filmlichtdruck], by Prof. O. Mente. Die Photographische Industrie, No. 10, 8 Mar 1926. Translated by F.A. Raven. Unpublished. 15 pp. Reference copy available only in TMB Library.
139. On the Propagation of Shock Waves in Liquids and Solids [Über Knallwellenausbreitung in Flüssigkeiten und festen Körpern], by Oswald von Schmidt. Zeitschrift für technische Physik, Vol. 19, No. 12, 1938, pp. 554-561. Translated by F.A. Raven. Unpublished. 15 pp., 19 figs. Reference copy available only in TMB Library.
140. Applications of Supersonics in Colloid Research [Die Anwendungen des Ultraschalls in der Kolloidforschung], by H.A. Wannow. Kolloid-Zeitschrift, Vol. 81, No. 1, Oct 1937, pp. 105-113. Translated by F.A. Raven. Unpublished. 30 pp., 6 figs. Reference copy available only in TMB Library.
141. On a New Accelerometer and Phenomena of Initial Vibrations or Transients in Vibration Meters [Über einen neuen Beschleunigungsmesser und Einschwingvorgänge bei Schwingungsmessern], by G. Gerloff. Forschung auf dem Gebiete des Ingenieurwesens (A), Vol. 8, No. 3, May/June 1937, pp. 143-152. Translated by F.A. Raven. Unpublished. 18 pp., 13 figs. Reference copy available only in TMB Library.
142. Measurement of Absorption, Velocity and Gas Expulsion in the Supersonic Range [Absorptions-, Geschwindigkeits-, und Entgasungsmessungen im Ultraschallgebiet], by Christian Sörensen. Annalen der Physik, Series 5, Vol. 26, No. 2, 17 Apr 1936, pp. 121-137. Translated by F.A. Raven. Unpublished. 14 pp., 10 figs. Reference copy available only in TMB Library.
143. Calculation of the Strength of Axially Symmetrical Boiler Heads [Die Festigkeitsberechnung achsensymmetrischer Böden und Deckel], by F. Schultz-Grunow. Ingenieur-Archiv, Vol. 4, 1933, pp. 545-554. Translated by F.A. Raven. Unpublished. 15 pp., 14 figs. Reference copy available only in TMB Library.

TRANSLATIONS

144. Travel in Currents - Excerpts from Johow-Foerster: Manual for Shipbuilding [Johow-Foerster: Hilfsbuch für den Schiffbau], by Dr.-Ing. E. Foerster. 1928. Translated by F.A. Raven. Unpublished. 4 pp., 4 figs. Reference copy available only in TMB Library.
146. Rise of Gas Bubbles in Liquids [Das Aufsteigen von Gasblasen in Flüssigkeiten], by F. Pickert. Forschung auf dem Gebiete des Ingenieurwesens (B), Vol. 3, Nov/Dec 1932, pp. 308-309. Translated by F.A. Raven. Unpublished. 4 pp., 1 fig. Reference copy available only in TMB Library.
147. On the Dispersion of Supersonic Vibrations in Liquids [Über die Dispersion des Ultraschalls in Flüssigkeiten], by A.K. Dutta. Physikalische Zeitschrift, Vol. 39, No. 5, 1 Mar 1938, pp. 186-187. Translated by F.A. Raven. Unpublished. 5 pp., 1 fig. Reference copy available only in TMB Library.
148. On the Coefficient of Temperature of Quartz Plates for Longer Waves [Über den Temperaturkoeffizienten von Quartzplatten für längere Wellen], by I. Koga. Elektrische Nachrichten-Technik, Vol. 12, No. 1, Jan 1935, 2 pp. Translated by F.A. Raven. Unpublished. 3 pp. Reference copy available only in TMB Library.
149. The General Electric Slow-Motion Camera [Der Zeitdehner der Technik]. Publication of the Allgemeine Elektrizitäts-Gesellschaft, Technisch-Physikalische Werkstätten, Sep 1942, 4 pp. Translated by F.A. Raven. Unpublished. 5 pp., 6 figs. Reference copy available only in TMB Library.
150. Shielding Electrodes to Produce Tough Weld Seams [Ummantelung der Elektroden zwecks Erhaltung einer zähen Schweißnaht]. Digest Elektrotechnische Zeitschrift, Vol. 56, No. 34, 22 Aug 1935, p. 50. (Avtogennoe Delo, 1935, Vol. 2.) Translated by F.A. Raven. Unpublished. 2 pp. Reference copy available only in TMB Library.
151. Electrographic Oscillograph [Elektrographischer Oszillograph]. A digest in VDI-Zeitschrift, Vol. 81, No. 31, 31 Jul 1937, pp. 922-923. Translated by F.A. Raven. Unpublished. 3 pp., 2 figs. Reference copy available only in TMB Library.
152. Calculation and Construction of Oscillograph Loops [Berechnung und Konstruktion von Oszillographenschleifen]. VDI-Zeitschrift, Vol. 81, No. 28, 10 Jul 1937, p. 847. Translated by F.A. Raven. Unpublished. 2 pp., 2 figs. Reference copy available only in TMB Library.
153. On an Instrument to Measure and Record Sea Waves [Über ein Gerät zur Messung und Aufzeichnung des Seeganges], by Wilhelm Pabst. Zeitschrift für Flugtechnik und Motorluftschiffahrt, Vol. 24, 1933, pp. 598-600 and 616-619. Digest by G. Braun. Zentralblatt für Mechanik, Vol. 1, No. 9, 1934, p. 385. Translated by F.A. Raven. Unpublished. 1 p. Reference copy available only in TMB Library.
154. Time Recording Device for Motion Picture Photographing [Kino-Zeitbild-Aufnahmeeinrichtung], by Friedrich Beck. Die Kinotechnik, Vol. 12, No. 4, 20 Feb 1930, pp. 98-99. Translated by F.A. Raven. Unpublished. 1 p., 4 figs. Reference copy available only in TMB Library.

TRANSLATIONS

155. Physiological Physics - Contribution to the Study of Shell Shock, Memoir by M. Marage, presented by M.R. Bourgeois [Physique Physiologique - Contribution a l'etude des commotions de guerre, Note de M. Marage, presentée par M.R. Bourgeois]. Comptes-Rendus des Séances de l'Académie des Sciences de Paris, 1918. Translated by R. Widmer. Unpublished. 5 pp., 1 fig. Reference copy available only in TMB Library.
156. Toepler's Schlieren Method. Basic Principles for Its Use and Quantitative Evaluation [Das Toeplersche Schlierenverfahren. Grundlagen für seine Anwendung und quantitative Auswertung], by Dr.-Ing. Hubert Schardin. Forschungsheft 367. Supplement to "Forschung auf dem Gebiete des Ingenieurwesens (B)." Vol. 5, Jul/Aug 1934, pp. 1-35. Translated by F.A. Raven. Jul 1947. 83 pp., 79 figs.
157. Underwater Explosions [Sprengungen unter Wasser], by C.E. Bichel. Marine-Rundschau, Nos. 7-12, Jul to Dec 1905, pp. 1345-1357. Translated by F.A. Raven. Unpublished. 16 pp., 5 figs. Reference copy available only in TMB Library.
158. On Thermal Damping in Spherically Symmetric Vibrating Gas Bubbles [Zur thermischen Dämpfung in kugelsymmetrisch schwingenden Gasblasen], by H. Pfriem. Akustische Zeitschrift, Vol. 5, Jul 1940, pp. 202-212. Translated by F.A. Raven. Unpublished. 17 pp., 4 figs. Reference copy available only in TMB Library.
159. Heat Transmission during High-Speed Pressure Changes in Gases [Der Wärmeübergang bei schnellen Druckänderungen in Gasen], by H. Pfriem. VDI-Zeitschrift, Vol. 87, No. 17/18, 1 May 1943, p. 268. Translated by R. Widmer. Unpublished. 5 pp. Reference copy available only in TMB Library.
161. Measurement of the Luminosity and Duration of Electric Sparks [Messung der Funkenhelligkeit und Funkendauer], by M. Kornetzki, V. Pomin, and R. Steinitz. Zeitschrift für technische Physik, Vol. 14, No. 7, 1933, pp. 274-280. Translated by F.A. Raven. Unpublished. Rough draft in TMB Translation Section.
162. A New Micromanometer [Ein neues Mikromanometer], by A. Betz. Ergebnisse der Aerodynamischen Versuchsanstalt Göttingen, Part 4, pp. 12-13. Translated by R. Widmer. Unpublished. 4 pp., 2 figs. Reference copy available only in TMB Library.
163. Memoir on the Buonocore Propeller [Nota sull'Elica Buonocore], Fiat Motors, Inc., Torino. Supplied by United States Naval Forces Northwest African Waters, 24 Jan 1944. Translated by F.A. Raven. Unpublished. 3 pp. Reference copy available only in TMB Library.
164. Extensometer Measurement with Ring-Type Pickup [Dehnungsmessung mit Ringgebern], by A. Theis. VDI-Zeitschrift, Vol. 87, No. 11/12, 20 Mar 1943, p. 154. Translated by R. Widmer. Unpublished. 4 pp., 2 figs. Reference copy available only in TMB Library.
165. Effect of Bombs on Reinforced Concrete and Thickness of Concrete Required for Safety [Bombenwirkung gegen Stahlbeton und notwendige Schutzdicken], by Dr.-Ing. O. Speth. VDI-Zeitschrift, Vol. 87, No. 13/14, Apr 1943. Translated by R. Widmer. Unpublished. 5 pp., 7 figs. Reference copy available only in TMB Library.

TRANSLATIONS

166. Dynamic Investigations on Ships [Dynamische Untersuchungen an Schiffen], by Dr. Wilhelm Spath. Werft-Reederei-Hafen, Vol. 11, No. 5, 1930, pp. 92-93. Translated by R.T. McGoldrick and D.F. Windenburg. Unpublished. 5 pp. Reference copy available only in TMB Library.
167. Electrography, a New Electric Recording Method by Instrument and Its Application [Elektrographie, ein neues elektrotechnisches Aufzeichnungs-Verfahren und seine Anwendungen], by P. Selenyi. Elektrotechnische Zeitschrift, Vol. 56, No. 35, 29 Aug 1935, pp. 961-963. Translated by R. Widmer. Unpublished. 10 pp., 8 figs. Reference copy available only in TMB Library.
168. Detonating Blast-Type Explosions [Die Zündung der Sprengschüsse], by Dr. K. Drekopf and Dr.-Ing. e.h. C. Beyling. Sprengstoffe und Zündmittel, Julius Springer, Berlin, 1936, Part 2, pp. 150-304. Translated by F.A. Raven. Unpublished. 248 pp., 85 figs. Reference copy available only in TMB Library.
169. Large-Scale Underwater Explosions [Grössere Explosionen unter Wasser], by Dr. C. Cranz, in Lehrbuch der Ballistik, innere Ballistik, die Bewegung des Geschosses durch das Rohr und ihre Begleiterscheinungen, Julius Springer, Berlin, 1926, pp. 179-183. Translated by R. Widmer. Unpublished. 7 pp. Reference copy available only in TMB Library.
170. The Entrainment of Self-Excited Oscillations and Their Technical Evaluation [Die Mitnahme Selbsterregter Schwingungen und ihre technische Verwertung], by F. Kirschstein. Translated by F.A. Raven. Unpublished. 32 pp., 19 figs. Reference copy available only in TMB Library.
171. Note on the Displacement of Gas Globes in Water [Note sur le déplacement du front des gaz dans l'eau], by M.J. Ottenheimer. Mémorial de l'Artillerie Française, Vol. 102, 1933. Translated by R. Widmer. Unpublished. 9 pp. Reference copy available only in TMB Library.
172. Development, Theory, and Calibration of Angularly Sensitive Pitot Tube for Two-Dimensional Flow (Cylindrical Pitot Tube) [Das Zylinderstaurohr], by Dipl.-Ing. Fritz Gutsche, in Mitteilungen der Preussischen Versuchsanstalt für Wasserbau und Schiffbau. Schiffbau, Schifffahrt und Hafengebäudebau, Vol. 32, No. 1, Jan 1931, pp. 13-19. Translated by F.A. Raven. Unpublished. 14 pp., 11 figs. Reference copy available only in TMB Library.
173. On Turbulent Hydraulic Flow in Straight Pipes at Very Large Reynolds Numbers [Über turbulente Wasserströmungen in geraden Röhren bei sehr grossen Reynoldsschen Zahlen], by J. Nikuradse, Vorträge aus dem Gebiete der Aerodynamik und verwandter Gebiete. Excerpts from lectures given by A. Gilles, L. Hopf, and Theodore von Kármán. Julius Springer, Berlin, 1930, pp. 63-69. Translated by F.A. Raven. Unpublished. 10 pp., 6 figs. Reference copy available only in TMB Library.
174. Photoelectric Torsiograph [Photoelektrischer Torsiograph], by W. Spillmann. Schweizer-Archiv für angewandte Wissenschaft und Technik, Vol. 8, No. 8, Aug 1942, pp. 252-255. Translated by F.A. Raven. Unpublished. 12 pp., 9 figs. Reference copy available only in TMB Library.
175. Electrical Equipment [Den Elektriska Unrustningen], by Karl Tiselius. Report of the Göteborg Model Basin, pp. 65-84. Translated by F.A. Raven. Unpublished. Rough draft in TMB Translation Section.

TRANSLATIONS

176. The Pallograph [Der Pallograph], excerpt from Applied Science of Vibration - A Handbook for Engineers, Physicists and Mathematicians in Research in the Applied Technology of Periodic Phenomena [Technische Schwingungslehre - Ein Handbuch für Ingenieure, Physiker und Mathematiker bei der Untersuchung der in der Technik angewendeten periodischen Vorgänge], by Dipl.-Ing. Dr. Wilhelm Hort, 2nd Ed., Julius Springer, Berlin, 1922, pp. 80-86. Translated by F.A. Raven. Unpublished. 9 pp., 3 figs. Reference copy available only in TMB Library.
177. Cycles of Gas Turbines and Attempts to Actually Produce Them [Kreisprozesse der Gasturbinen und die Versuche zu ihrer Verwirklichung], by Dr.-Ing. Rudolf Fuchs. Julius Springer, Berlin, 1940. Translated by F.A. Raven. Apr 1945. ii, 95 pp., 59 figs.
178. Experiences with a New Fusion Welding Process for Thin Metal Sheets [of Light Metal Alloys] [Erfahrungen mit einem neuen Schmelzschweißverfahren für dünne Bleche], by Dr.-Ing. E. von Rajakovics. Maschinenbau der Betrieb, Vol. 18, No. 15/16, Aug 1939, pp. 395-397. Translated by R. Widmer. Unpublished. 7 pp., 13 figs. Reference copy available only in TMB Library.
179. On the Sensitization of Polyvinyl Alcohol As a Coating Material or Agent for the Fabrication of Plates for Printing [Über die Sensibilisierung von Polyvinylalkohol als Beschichtungstoff für die Herstellung von Druckplatten], by J. Albrecht. Kolloid-Zeitschrift, Vol. 103, No. 2, 1943, pp. 160-170. Translated by F.A. Raven. Unpublished. 7 pp., 6 figs. Reference copy available only in TMB Library.
180. Contribution to the Theory of Stability on Course and Steering Under Way [Beitrag zur Theorie der Kursstabilität und der Steuerverfahren], by Georg Weinblum. Schiffbau, Schiffahrt und Hafenbau, Vol. 38, No. 4, 1937, pp. 51-58. Translated by F.A. Raven. Unpublished. 19 pp., 8 figs. Reference copy available only in TMB Library.
181. Documentation [Dokumentation]. VDI-Zeitschrift, Vol. 88, No. 9/10, 4 Mar 1944, pp. 125-126. Translated by R. Widmer. Unpublished. 9 pp. Reference copy available only in TMB Library.
182. Launching Tests with Two Ship Models [Stapellaufversuche mit zwei Schiffmodellen], by Dipl.-Ing. Henry Stemmer. Schiffbau, Schiffahrt und Hafenbau, Vol. 38, No. 12, 15 Jun 1937, pp. 197-200, No. 13, 1 Jul 1937, pp. 217-219. Translated by F.A. Raven. Unpublished. 12 pp., 7 figs. Reference copy available only in TMB Library.
183. Investigation of the Change of Resistance in Wires Produced by Tension [Untersuchungen über die Widerstandsänderung von Drähten durch Zug], by E. Czerlinsky. Report of the German Research Institute for Aeronautics [Jahrbuch der Deutschen Luftfahrtforschung], 1938, Vol. 2, pp. 377-380. Translated by F.A. Raven. Unpublished. 10 pp., 4 figs. Reference copy available only in TMB Library.
184. On the Separation of Eddies or Vortices and Its Prevention [Über Wirbelablösung und deren Verhinderung], by Dr. L. Prandtl and Dr. A. Betz. Ergebnisse der Aerodynamischen Versuchsanstalt zu Göttingen, 3rd Ed., 1927, pp. 6-9. Translated by F.A. Raven. Unpublished. 5 pp., 5 figs. Reference copy available only in TMB Library.

TRANSLATIONS

186. Resistance of a Cylindrical Tube of Infinite Length, Closed at Both Extremities and Filled with Water under Pressure or Immersed in Water, Its Generating Lines Being Horizontal and Its Transverse Section Having a Vertical Axis of Symmetry [Résistance d'un tube cylindrique de longueur infinie, fermé a ses deux extrémités et rempli d'eau sous pression ou immergé dans l'eau, les generatrices etant horizontales et la section transversale ayant un axe de symmetrie vertical], by M. Simonot. Bulletin de l'Association Technique Maritime, Vol. 20, 1909, pp. 247-263. Translated by F.A. Raven. Unpublished. 14 pp. 3 figs. Reference copy available only in TMB Library.
187. The Elin-Hafergut Method for Welding of Thin Metal Sheets [Das Elin-Hafergut Verfahren für die Dünnschweißung], by H. Hauser. Bulletin Schweizerische Elektrotechnische Verein, Vol. 19, 1943, pp. 566-569. Translated by R. Widmer. Unpublished. 8 pp., 9 figs. Reference copy available only in TMB Library.
188. Erosion and Cavitational Erosion [Erosion und Kavitations-Erosion], by P. de Haller. Handbuch der Werkstoffprüfung, Vol. 2, Die Prüfung der Metallischen Werkstoffe, Julius Springer, Berlin, 1939, pp. 471-488. Translated by R. Widmer. Unpublished. 21 pp., 23 figs. Reference copy available only in TMB Library.
189. Memoir on the Calculation of the Fatigue Strength of Submarine Hulls [Note sur le calcul des fatigues des coques de sous-marins], by Henry Lecoq. Bulletin de l'Association Technique Maritime et Aero-nautique, Vol. 29, 1925, pp. 59-74. Translated by F.A. Raven. Unpublished. 14 pp., 10 figs. Reference copy available only in TMB Library.
190. The AEG Light-Flash Stroboscope [Das AEG-Lichtblitzstroboskop], The AEG Spark-Flash Apparatus FG6/1 [Das AEG-Funkenblitzgerät FG6/1], AEG Report. VDI-Zeitschrift, Vol. 87, No. 27/28, 10 Jul 1943, back cover; No. 39/40, 2 Oct 1943, back cover. Translated by F.A. Raven. Unpublished. 2 pp. Reference copy available only in TMB Library.
191. Report of the Germaniawerft Respecting Explosion or Blast Tests on Hatch Seal Locks [Erklärungen der Germaniawerft zu den Sprengversuchen an Lukenverschlüssen]. United States Naval Technical mission in Europe in 1944. Translated by F.A. Raven. Unpublished. 10 pp., 13 figs. Reference copy available in TMB Translation Section.
192. A Nonlinear Boundary-Value Problem - Forced Pendulum Oscillations [Eine nichtlineare Randwertaufgabe - Erzwungene Pendelschwingung], by A. Hammerstein. Jahresbericht der Deutschen Mathematiker Vereinigung, Vol. 39, 1930, pp. 59-63. Translated by F.A. Raven. Unpublished. 6 pp. Reference copy available only in TMB Library.
193. Theory of Stationary Compression Shock [Zur Theorie des stationären Verdichtungsstosses], by F. Schubert. VDI-Zeitschrift, Vol. 87, No. 51/52, 25 Dec 1943. Translated by R. Widmer. Unpublished. 3 pp., 7 figs. Reference copy available only in TMB Library.
194. Scale Effect and Its Determination in Ship Model Tests [El efecto de escala y la determinación de ésta en los ensayos con modelos de buques], by Manuel L. Acevedo. La Revista Ingenieria Naval, 1943, pp. 518-532. Translated by F.A. Raven. Unpublished. 23 pp., 6 figs. Reference copy available only in TMB Library.

TRANSLATIONS

197. On Submerged Navigation of Submarines under Diesel Power [Per la navigazione dei sommergibili in immersione coi Motori Diesel], by P. Ferretti. Istituto di Guerra Maritima Sviluppo del Materiale Bellico. Translated by F.A. Raven. Unpublished. 31 pp., 19 figs. Reference copy available only in TMB Library.
198. Theoretical Investigations on Cooling of Gas Turbines [Theoretische Untersuchungen über Kühlung von Gasturbinen], by K.J. Müller. Deutsche Luftfahrtforschung, Forschungsbericht No. 1918, Published by Deutsche Versuchsanstalt für Luftfahrt E.V., Institut für Stromungsmaschinen, Berlin-Adlershof. Zentrale für wissenschaftliches Berichtswesen der Luftfahrtforschung des Generalluftzeugmeisters (Z W B), Berlin-Adlershof. Translated by F.A. Raven. Mar 1946. 34 pp., 23 figs.
200. The General Principle of Similitude in Physics and Its Relation to the Theory of Dimensions and the Science of Scale Models [Das allgemeine Ähnlichkeitsprinzip der Physik und sein Zusammenhang mit der Dimensionslehre und der Modellwissenschaft], by Prof. Dr.-Ing. Moritz Weber. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 31, 1930, pp. 274-354. Translated by F.A. Raven. Unpublished. Typed copy in TMB Translation Section.
202. Stability of Ships in Operation [Die Stabilität des Schiffes im Betrieb], by Dipl.-Ing. E. Klindwort. VDI-Zeitschrift, Vol. 87, No. 23/24, 12 Jun 1943, pp. 359-365. Translated by R. Widmer. Unpublished. 18 pp., 5 figs. Reference copy available only in TMB Library.
203. Characteristic Curves for Breakage Radius of Window Glass Caused by Bomb Blasts [Zerstörungskennlinien von Fensterglas], by Dr.-Ing. Geppert. Ballistisches Institut der Technischen Akademie der Luftwaffe, Berlin-Gatow, 1944. Translated by R. Widmer. Unpublished. Rough draft in TMB Translation Section.
204. Stereophotogrammetric Wave Photographs [Stereophotogrammetrische Wellenaufnahmen], by Georg Weinblum and Walter Block. Jahrbuch der Schiffbautechnischen Gesellschaft, Vol. 37, 1936, pp. 214-250 and 259-276. Translated by F.A. Raven. Unpublished. 80 pp., 47 figs. Reference copy available only in TMB Library.
207. The High-Speed Spark Camera [Die Funkenzeitlupe], by Dr. Alfred Keil. Translated by R. Widmer. Sep 1947. 13 pp., 4 figs.
209. Oscillation of the Gas Globe in an Underwater Explosion [Die Gasblasenschwingung bei einer Unterwassersprengung], by Alfred Keil and Walter Wunderlich. Chemisch-physikalische Versuchsanstalt der Marine. Paper obtained in manuscript form by the United States Naval Technical Mission in Europe in 1944. Translated by R. Widmer. Oct 1947. 51 pp., 17 figs.
211. Measurement of Bending Curves on Aircraft and Ships [Biegelinienmessung an Flugzeugen und Schiffen], by Dr.-Ing. H.G. Küssner. Paper obtained in manuscript form by the United States Naval Technical Mission in Europe in 1945. Translated by R. Widmer. Unpublished. Typed copy available in TMB Translation Section.

TRANSLATIONS

212. Measurements on a Model of a Jet-Propulsion Nacelle [Messungen an dem Modell einer Strahlantriebsgondel], by Brennecke. Deutsche Luftfahrtforschung Forschungsbericht No. 1723, Aerodynamischen Versuchsanstalt zu Gottingen, Jan 7, 1943. Translated by C.J. Wenzinger. Oct 1946. 27 pp., 6 figs.
213. Measurements on Shock Waves in Water with the High-Speed Spark Camera [Messungen an Stosswellen in Wasser mit der Funkenzeitlupe], by Dr. A. Keil. Dänisch-Nienhof, July 1946. Translated by R. Widmer. Sep 1947. 29 pp., 15 figs.
214. Calculation for the Design of Oppositely Rotating Propellers or Contra-Propellers [Rechenschema zum Entwurf gegenläufiger Treibschauben]. Report 906, Hamburg Model Basin. Translated by F.A. Raven. Unpublished. 3 pp., 1 fig. Reference copy available only in TMB Library.
216. Report on the New Towing Carriage of the Hannover Model Basin [Bericht über die neue Schleppvorrichtung der hannoverschen Versuchsanstalt], by Rudolf Eikenroth. Mitteilungen hannoverschen Hochschule Gemeinschaft, No. 16, 1935, pp. 14-16. Translated by Martin A. Mason. Unpublished. 4 pp., 5 figs. Reference copy available only in TMB Library.
217. Wind-Tunnel Investigations of Jet Propulsion Models with Cold Jet [Windkanaluntersuchungen an Strahltriebwerkmodellen mit kaltem Strahl], by W. Lehmann. Deutsche Luftfahrtforschung Forschungsbericht Nr. 1902/1. Arado Flugzeugwerke, Brandenburg/Havel, 4 Nov 1943. Translated by C.J. Wenzinger. Dec 1946. 26 pp., 12 figs.
218. Wind-Tunnel Measurements of a Jet-Propulsion Model with Cold Jet and a Wing as a Boundary [Windkanalmessungen an einem Strahltriebwerkmodell mit kaltem Strahl und einem Flügel als Blende], by W. Lehmann. Deutsche Luftfahrtforschung Forschungsbericht No. 1902/2. Arado Flugzeugwerke, Brandenburg/Havel, 4 Nov 1943. Translated by C.J. Wenzinger. Jan 1947. 19 pp., 17 figs.
219. On the Use of Jet Drives for Wind Tunnels of High Velocity [Über die Verwendung des Strahlantriebes bei Windkanälen hoher Geschwindigkeit], by H. Winter. Deutsche Luftfahrtforschung Forschungsbericht Nr. 1103 Aerodynamische Versuchsanstalt Gottingen e. V., 7 Oct 1939. Translated by C.J. Wenzinger. Apr 1947. 25 pp., 8 figs.
220. Pressure Distributions over Bodies of Revolution for Axial Flow [Druckverteilungen von Rotationskörpern bei achsialer Anströmung], by M. Brand. Aerodynamische Versuchsanstalt Gottingen e. V. UM Nr. 3206, 30 Dec 1944. Translated by C.J. Wenzinger. Apr 1947. 49 pp., 74 figs.
221. Luminous Living Organisms [Les êtres vivants lumineux], by C. Puisségur. Science et Vie, Vol. LXX, No. 348, Sep 1946, Paris, France. Translated by R. Widmer. May 1947. 17 pp., 9 figs.

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