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Prof. Dr. D. Küchemann, CBE, Dr. rer. nat., FRS, C.Eng., FRAeS, FIMA, FAIAA, Hon.D.Sc. (CIT), Dr.Ing.E.h. (Berlin), Hon.D.Sc.Eng. (Bristol), Hon.M.Aero.Soc., India was born in Göttingen on 11 September 1911.

He studied at Göttingen and München Universities, receiving his Dr. rer. nat. at Göttingen in 1936. From then until 1946 he worked at the Aerodynamische Versuchsanstalt Göttingen e.V., when he moved to the Aerodynamics Department of the RAE at Farnborough. He became head of the Department from 1966 to 1971, and continued as a Consultant to the Department until his death on 23 February 1976.

From 1972 until his death he was also Visiting Professor in the Department of Aeronautics at the Imperial College of Science and Technology of the University of London. Citations to his writings are arranged chronologically, beginning with his doctoral dissertation in 1936. Elected FRS in 1963 and appointed Commander of the Order of the British Empire in 1964, he received the Silver Medal of the Royal Aeronautical Society in 1962 and in 1969 their Gold Medal and the Enoch Thulin Medal of the Swedish Society for Aeronautics and Astronautics. The Ludwig-Prandtl-Ring of the Deutsche Gesellschaft für Luft- und Raumfahrt followed in 1970, an honorary D.Sc from Cranfield Institute of Technology in 1973, the Dr.Ing.E.h. of the Technische Universität, Berlin, and the honorary D.Sc in engineering of the University of Bristol in 1975. Finally he received the Baillie memorial trophy from the Bristol Branch of the Royal Aeronautical Society.

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ABBREVIATIONS

AGARD	North Atlantic Treaty Organisation, Advisory Group for Aerospace Research and Development.
AGARD AR	AGARD advisory report. [<i>Report series</i>]
AGARD AG	AGARDograph. [<i>Report series</i>]
AGARD CP	AGARD conference proceedings. [<i>Report series</i>]
AGARD LaWs	AGARD Large Windtunnels Working Group
AGARD R	AGARD report. [<i>Report series</i>]
ARC	Aeronautical Research Council
ARC CP	ARC current paper. [<i>Report series</i>]
AVA	Aerodynamische Versuchsanstalt Göttingen, e.V.
AVA Monog	Monographien Über Fortschritte der deutschen Luftfahrtforschung seit 1939. [In 1945 the AVA was taken over by the UK Ministry of Aircraft Production, and under their direction it was decided to issue a series of monographs, under the general editorship of Professor A. Betz, to provide the full results of German aeronautical research during the second World War. In structure this series resembles an encyclopaedia. Indexes, edited by J. Stüper were published as MAP-VG 327-1027T to MAP-VG 332-1032T inclusive and also as R & T 1027 to 1032. It was intended that this series would remove all need to consult original reports, except in very exceptional circumstances.]
DGLR	Deutsche Gesellschaft für Luft- und Raumfahrt, e.V.
dt.Akad. Luft	Deutsche Akademie der Luftfahrtforschung
GDC	UK Ministry of Supply, Technical Information Bureau, German Document Centre or Collection. [<i>Report series</i>]
IUTAM	International Union of Theoretical and Applied Mechanics.
J.Aeronaut.Sci	Journal of the aeronautical sciences.
J.R.Aero.Soc	Journal of the Royal Aeronautical Society.
Jb	Jahrbuch.
Jb.dt.Luft-Forsch	Jahrbuch (year) der deutschen Luftfahrtforschung
L.G.L.	Lillienthalgesellschaft für Luftfahrtforschung
MAP-VG	UK Ministry of Aircraft Production - Völkenrode reference. [<i>Report series</i>]

Mitt	Mitteilungen. [<i>Report series</i>]
NACA	USA National Advisory Committee for Aeronautics
NACA TM	NACA technical memorandum. [<i>Report series</i>]
P	[<i>accession number of overseas document acquired by the UK Ministry of Defence, Defence Research Information Centre, and its predecessor organisations.</i>]
R & M	ARC reports and memoranda. [<i>Report series</i>]
R & T	UK Ministry of Supply, Reports and Translations. [<i>Report series</i>]
RAE LT	Royal Aircraft Establishment, library translation. [<i>Report series</i>]
RAE TM	Royal Aircraft Establishment, technical memoranda. [<i>Report series</i>]
RAE TN	Royal Aircraft Establishment, technical note. [<i>Report series</i>]
RAE TR	Royal Aircraft Establishment, technical report. [<i>Report series</i>]
TIB	UK Ministry of Supply, Technical Information Bureau.
UM	Untersuchungen und Mitteilungen der deutsche Luftfahrtforschung von der ZWB. [<i>Report series</i>]
VDI	Verein Deutscher Ingenieure.
WGLR	Wissenschaftlichen Gesellschaft fuer Luft- und Raumfahrt, e.V.
ZAMM	Zeitschrift für Angewandte Mathematik und Mechanik.
ZWB	Zentrale für wissenschaftliches Berichtswesen bei der Deutschen Versuchsanstalt für Luftfahrt, e.V.
later	Zentrale für wissenschaftliches Berichtswesen der Luftfahrtforschung des Generalluftzeugmeisters.
ZWB.Fb	Forschungsbericht von der ZWB. [<i>Report series</i>]
ZWB.TB	Technische Berichte von der ZWB.

- 1936 Stabilität der Gasströmung mit linearer Geschwindigkeitsverteilung längs einer ebenen Platte. Inaugural-Dissertation zur Erlangung der Doctorwürde der Mathematisch-Naturwissenschaftlichen Fakultät der Georg-August-Universität zu Göttingen.
[Stability of gas flows with linear velocity distribution along a flat plate: doctoral dissertation.]
- 1937 Berechnung der Auftriebsverteilung über die einzelnen Flügel eines Doppeldeckers. ZWB FB890 + Luftfahrtforschung 15 (1938) 543-555 + Jb. 1938 dt. Luft-Forsch. I. 136-148.
Investigation of the lift distribution over the separate wings of a biplane. NACA TM 889 (1939).
[Also translated as GDC 10/152T - Calculation of the lift distribution over wings of a biplane.]
- 1938 Letter to the editor [a note on Sherman's integrator] J. Aeronaut. Sci. 5 (8) 312.
- 1938 Störungsbewegungen in einer Gasströmung mit Grenzschicht. ZAMM 18 207-222.
[Small perturbations and stability of a compressible flow with boundary layer (dissertation).]
- 1938 (with I. Flügge-Lotz)
Zusammenfassender Bericht über Abwindmessungen ohne und mit Schraubenstrahl. Jb 1938 dt. Luft-Forsch. I 172-193.
Summarised report on measurements of downwash with and without slipstream. TIB.T870.
Bemerkungen zum "Zusammenfassender Bericht über Abwindmessungen ohne und mit Schraubenstrahl". LGL.A 50/2.
[Notes on "summarised"]
- 1940 Bemerkung über den Einfluss des Seitenverhältnisses auf den Zusammenhang von Normalkraft und Tangentialkraft eines Tragflügels. ZAMM 20 (5) 290-291 and ZAMM 22 (5) 304 (1942).
[Note on the influence of the aspect ratio on the relationship between normal and tangential force of an aerofoil.]
- 1940 Tafeln für die Stromfunktion und die Geschwindigkeitskomponenten von Quellring und Wirbelring. Jb. 1940 dt. Luft-Forsch I. 547-564.
Tables for the stream function and the velocity components of a source-ring and a vortex ring. MAP-VG 10-308T + GDC 1598T + ARC 10615 + R & T 308 (1946).
- 1940-1944 Über die Strömung an ringförmigen Verkleidungen endlicher Dicke. ZWB Fb 1236 + AVA Bericht 40/1/13 + GDC 10/1139 (1940).
Note: Some lists show 1941 - Ringförmige Tragflügel as a revised version of this.
Concerning the flow about ring-shaped cowlings of finite thickness. Part 1. NACA TM 1325 (1952).

(with J. Weber)

Über die Strömung an ringformigen Verkleidungen.

II Mitteilung: Ringkörper unendlicher Tiefe mit Zirculation bei stossfreiem Eintritt. ZWB Fb 1236/2 + AVA Bericht 40/1/19 (1940).

Concerning the flow about ring-shaped cowlings. Part II: annular bodies of infinite length with circulation for smooth entrance. NACA TM 1326 (1951).

(with J. Weber)

III Mitteilung: Dünne Ringprofile. ZWB Fb 1236/3 + AVA Bericht 41/1/8 (1941).

[Part 3: thin ring profiles]

Note: Some lists show 1943 - *Die Berechnung dünner Ringprofile* as a second edition of this.

(with J. Weber)

IV Mitteilung: Windkanalmessungen an Einlaufgeräten. ZWB Fb 1236/4 + AVA Bericht 41/1/12 + GDC 10/1136 (1941).

[Part 4: windtunnel measurements on inlets]

(with J. Weber)

V Mitteilung: Experimentelle Untersuchungen an Ringprofilen endlicher Tiefe. ZWB Fb 1236/5 + AVA Bericht 42/A/02 + GDC 10/1135 (1942).

[Experiments on ring profiles of finite chord]

(with J. Weber)

VI Mitteilung: Weitere Messungen an Einlaufgeräten. ZWB Fb 1236/6 + AVA Bericht 42/A/04 + GDC 10/1134 (1942).

Part VI - Further measurements on inlet devices. NACA TM 1327 (1951).

VII Mitteilung: Die Mantelschraube ZWB Fb 1236/7 + AVA Bericht 42/A/15 + GDC 10/1133 + P 34507 + TIB.T 3568 (1942).

[The shrouded propeller]

(with J. Weber)

VIII Mitteilung: Weitere Messungen an Ringprofilen. ZWB Fb 1236/8 + AVA Bericht 43/A/08 + GDC 10/1141 (1943).

Part VIII - Further measurements on annular profiles. NACA TM 1328 (1952).

(with J. Weber)

IX Mitteilung: Der Einfluss der Schräganblasung auf die uebergeschwindigkeiten und Luftkräfte am vorderen Teil von Ringhauben. ZWB Fb 1236/9 + AVA Bericht 43/A/10 + GDC 10/1142 (1943).

Part IX - the influence of oblique oncoming flow on the incremental velocities and air forces at the front part of circular cowls. NACA TM 1329 (1952)

(with J. Weber)

XI Mitteilung: Wandnahe Einläufe. UM 3051 + AVA Bericht 43/A/27 (1943).

[Part 11: inlets near a wall]

(with J. Weber)

XII Mitteilung: Zwei neue Klassen von Ringhauben. UM 3111 + AVA Bericht 44/A/18 (1944).

Part XII - Two new classes of circular cowls. NACA TM 1360 (1953)

XIII Mitteilung: Der Einfluss einer vorgezogenen Nabe. UM 3144 + AVA Bericht 44/A/24 (1944).

Part XIII - The influence of a projecting hub. NACA TM 1361 (1953).

1941 Auftriebsverteilungsrechnungen für eine systematische Reihe von Doppeldeckeranordnungen. Luftfahrt - Forschung 18 (6) 205-213.

[Span-loading distributions for a systematic series of biplanes.]

1941 (with E. von Holst)

Biologische und aerodynamische Probleme des Tierfluges. Naturwissenschaften 29 (24/25) 348-362.

Biological and aerodynamical problems of animal flight (abridged from ...) R. Aero. Soc. 46 (374) 39-56 (1942).

1941 Dreikomponentenmessungen an einem Flügel mit rotierendem Hilfsflügel ZWB Fb 1513 + AVA Bericht 41/14/46 + GDC 10/1648.

[Wind tunnel tests on a wing with a rotating auxiliary aerofoil]

1941 Ringförmige Tragflügel. ZWB TB 8 (2) 53-58.

[Annular wings]

Note: Some lists show this as a revised version of 1940-1944 - *Über die Strömung an ringförmigen Verkleidungen endlicher Dicke* (1940).

1941 (with F. Vandrey)

Über den Einfluss der Düse (oder des Auffangtrichters) auf Widerstandsmessungen im Freistrah. ZAMM 21 (1) 17-31.

The influence of the nozzle (or of the collector cone) on the measurements of resistance in an open-jet wind tunnel. TIB T 1329.

Über den Einfluss der Düse auf Widerstandsmessungen im Freistrah II. ZAMM 22 (1) 15-22 (1942).

The influence of the nozzle on resistance measurements in the free jet - II. TIB T 1825.

1941 (with J. Weber)

Über ringförmige Triebwerksverkleidungen (Theorie und Messungen) LGL Bericht 144 + AVA Bericht 41/1/14.

[On annular power plant fairings]

- 1941 *(with E. von Holst)*
Zur Aerodynamik des Tierfluges. Luftwissen 8 (9) 277-282.
Aerodynamics of animal flight. TIB T 1682.
- 1941 *(with F. Vandrey)*
Zur Geschwindigkeitskorrektur in Windkanälen mit freier Messtrecke unter besonderer Berücksichtigung des Düseninflusses. Jb 1941 dt. Luft-Forsch. I. 667-671 + AVA Bericht 41/1/9.
[Blockage corrections in open jet wind tunnels, with special consideration of the influence of the nozzle]
- 1942
Auftrieb und Widerstand eines rotierenden Flügels. ZWB Fb 1651 + AVA Bericht 42/W/37 + GDC 10/295.
[Lift and drag of a rotating wing]
- 1942 *(with J. Weber)*
Berechnung eines Haubenprofiles (BMW). AVA Bericht 42/A/18.
[Calculation of a cowling profile (BMW)]
- 1942
Der Einfluss einer Verkleidung auf die Axialkräfte an Kühlern und Luftschrauben. ZWB TB 9 (1) 19-21 + AVA Bericht 41/1/20.
[Influence of a fairing on the axial forces at radiators and propellers]
- 1942
Geschwindigkeitskorrektur bei Windkanalmessungen. VDI-Zeitschrift 86 (49/50) 754-755.
[Blockage correction in wind tunnel measurements]
- 1942 *(with J. Weber)*
Kennzahleinfluss bei einer Modellluftschraubenmessung. AVA Bericht 42/A/13.
[Scale effect in testing model airscrews]
- 1942 *(with J. Weber)*
Messungen an Mantelschrauben. AVA Bericht 42/A/10.
[Wind tunnel tests on ducted airscrews]
- 1942 *(with J. Weber)*
Rechnungen zum Einbau eines Kühlers. AVA Bericht 42/A/07.
[Calculations for the installation of a cooler]
- 1942 *(with E. von Holst and K. Solf)*
Der Triebflügel: eine Vereinigung von Vortriebs- und Auftriebsorgan. Jb. (1942) dt. Luft-Forsch I. 435-443 + ZWB TB 10 (1).
The thrust wing. An integration of the means of propulsion and lift. RAE LT 1177 (1968)
- 1942-1945 [The installation of coolers]
(with J. Weber)
Der Einbau von Kühlern. ZWB Fb 1566 + AVA Bericht 42/A/03 + GDC 10/1323 (1942)

(with J. Weber)

II Teilbericht: Theoretische und experimentelle Grundlagen. UM 3009 + AVA Bericht 43/A/13 (1943)

[Part 2: theoretical and experimental fundamentals]

(with J. Weber)

III Teilbericht: Messungen an schräg angeblasenen ungestaffelten Kühlerblöcken bei parallelem zu- und Abstrom. UM 3011 + AVA Bericht 43/A/12 (1943)

[Part 3: measurements at unstaggered radiators in oblique flow]

(with J. Weber)

V Teilbericht: Messungen an einem schräg angeblasenen gestaffelten SKF - Wasserschneidenblock bei parallelem Zu- und Abstrom. UM 3021 + AVA Bericht 43/A/16 (1943)

[Part 5: measurements at a staggered SKF-water cooler at oblique flow]

(with J. Weber)

VI Teilbericht: Weitere Messungen bei schräg angeblasenen SKF-Kühlerblöcken. UM 3042 + AVA Bericht 43/A/23 (1943)

[Part 6: further measurements at SKF-cooler blocks in oblique flow]

(with J. Weber)

VIII Teilbericht: Messungen an theoretischen Stromliniendiffusoren. UM 3074 + AVA Bericht 44/A/04 (1944).

[Part 8: measurements at theoretically streamlined diffusors]

(with J. Weber)

IX Teilbericht: Der Einfluss einer Strömungslenkung hinter dem Kühlerblock. UM 3098 + AVA Bericht 44/A/12 (1944).

[Part 9: influence of a turning of the flow behind the radiator]

X Teilbericht: Messungen an einen gewölbten SKF-block und an drei Blöcken von Firmag-System. UM 3099 + AVA Bericht 44/A/13 (1944)

[Part 10: measurements at a curved SKF-cooler block and at three blocks of the Firmag system]

XI Teilbericht: Allgemeine Betrachtungen über die Schleppleistung einer Kühlanlage und über die Bewertung von Kühlsystemen. UM 3108 + AVA Bericht 44/A/16 (1944)

[Part 11: general considerations on the cooling power loss and on the valuation of radiator systems]

XIII Teilbericht: Schutzkörper zur Erhöhung der Beschusssicherheit sowie Messungen an Umlenkgrittern. UM 3113 + AVA Bericht 44/A/19 (1944).

[Part 13: intercepting bodies for bullet protection and measurements at guide vanes]

XV Teilbericht: Der Einfluss eines Strömungsüberlanfes. UM 3148 + AVA Bericht 44/A/26 (1944)

[Part 15: influence of a by-pass flow]

(with J. Weber)

XVI Teilbericht: Messungen an einfach zu konstruierenden Diffusorformen. UM 3183 + AVA Bericht 44/A/32 (1944).

[Part 16: measurements at simply constructed diffuser shapes]

(with J. Weber)

XVII Teilbericht: Zur Frage des Kühlereinbaues bei einmotorigen Otto-Jägern mit Heckschraube. UM 3189 + AVA Bericht 44/A/34 (1944).

[Part 17: on the question of the cooler installation in single engined Otto fighters with tailscrew]

(with J. Weber)

XIX Teilbericht: Messungen an einem Serienkühlerkopf DB 8603. UM 3230 + AVA Bericht 44/A/08 (1945).

[Part 19: measurements on a serial cooler head]

(with J. Weber)

XX Teilbericht: Weitere Betrachtungen über die Schleppleistung einer Kühlanlage und über die Bewertung von Kühlsystem. AVA Bericht 45/A/12.

Part 20: further considerations about the cooling power loss of a radiator arrangement and about the valuation of radiator systems. MAP-VG-15-161T + R & T 161 + GDC 10/4490T (1946)

1943 Aerodynamische Aufgaben bei Sondertriebwerken. UM 3199 + AVA Bericht 43/A/19.

[Aerodynamic problems with special power units]

1943 (with J. Weber)

Die Berechnung dünner Ringprofile. Jb. 1943 dt. Luft-Forsch. IA 023 1-14 + AVA Bericht 43/A/04 + ZWB TB 10 (9).

The calculation of thin ring profiles. MAP-VG 62-858T + R & T 858 + GDC 10/13007T + ARC 11208 (1946).

Note: Some lists show this as a second edition of 1940-1944 III Mitteilung: Dünne Ringprofile (1941)

1943 (with J. Weber)

Betrachtungen zum Einbau von Kühlern. AVA Bericht 43/A/1.

[Considerations on the installation of coolers]

1943 (with J. Weber)

Das Einlaufproblem bei Triebwerksverkleidungen. Mitt. dt. Akad. Luft 5004 + AVA Bericht 42/A/19.

and Das Ansaugproblem für Triebwerksverkleidungen. Schriften 1944 dt. Akad. Luft.

The intake problem at power unit fairings. MAP-VG 154-813T + R & T 813 + ARC 11556 + GDC/624T (1947)

- 1943 Strahlausbreitung in Wandnähe. UM 3057.
Jet diffusion in the proximity of a wall. NACA TM 1214 (1949)
- 1943 (with J. Weber)
Die Stromung im Inneraum bei zwei Messerschmitt-Kühlereinbau-
Entwürfen. UM 3037 (1943).
[Flow in the duct of two Messerschmitt radiator designs]
- 1944 Bericht über das Göttinger Versuchsprogramm zum Einbau von TL -
Triebwerken. UM 3125 + AVA Bericht 44/A/23.
Report on the Göttingen test program concerning the installation of
TL-power units. MAP-VG 132-803T + R & T 803 + GDC 10/5440T
- 1944 Druckverteilungsmessungen an einem Rechteckflügel mit Triebwerk.
UM 3157
[Pressure measurements on a rectangular wing with engine nacelles]
- 1944 Eichkurven für die Geschwindigkeitssonden in den Messkühlern 1 und
2 für das DB- Trommelkühlermodell 1:1. AVA Bericht 44/A/11.
[Calibration curves for blockage probes in radiator measurements 1
and 2 for the DB cylindrical radiator model 1:1]
- 1944 Grundsätzliches zum Strahlflügel. UM 3123 + AVA Bericht 44/A/22.
[Fundamentals of the jet wing, i.e. effect of duct losses on an
aerofoil with an intake at the leading edge and a jet from the
trailing edge]
- 1944 (with J. Weber)
Voruntersuchungen über den Einstromvorgang beim Argus-Schmidt-Rohr.
UM 3198 + AVA Bericht 44/A/37.
[Preparatory investigations on the inflow in the Argus-Smidt pipe]
- 1944 (with J. Weber)
Zur Frage: "Kreisrunde oder ovale Hutzen?" UM 3058.
[On the question: circular or oval air intakes?]
- 1945 Bemerkung zum Betz-Knoller-Effekt. Betz-Festschrift 83-88.
Remark on the Betz-Knoller effect. MAP-VG 80-46T + R & T 46 +
ARC 9728 (1946)
- 1945 Einläufe in einer ebenen Wand. UM 3221 + AVA Bericht 45/A/02.
[Flush air intakes in a plane wall]
- 1945 Triebwerksaerodynamik. AVA Bericht 45/A/10.
Aerodynamics of power plants. MAP-VG 14-61T + R & T 61 + GDC
10/4275T + ARC 9822 (1946)

- 1945 Über einige Fragen der Vortriebserzeugung. Göttingen monograph (Betz Festkolloquium).
On some problems of the production of propulsion. MAP-VG 159-104T + R & T 104 + GDC 10/4282T + ARC 9877 (1946)
- 1945 Der Widerstand von Körpern, die an einer Wand angebracht sind. AVA Bericht 45/A/13.
The resistance of bodies fixed on a wall. MAP-VG 16-79T + R & T 79 + GDC 10/4278T + ARC 9831 (1946)
- 1945 (with A. Scherer)
Zur Frage des Triebwerkseinbaues bei Ein - TL - Jägern. UM 3205 + AVA Bericht 45/A w/6.
On the question of the installation of the power plant in one-TL-fighters, MAP-VG 133-804T + R & T 804 + GDC 10/5488T.
- 1946 (edited by W. Encke)
Aerodynamik der Strahltriebwerke. AVA Monog. Band J3 + R & T 897/898.
3. Aerodynamik wichtiger Einzelteile
Aerodynamics of jet propulsion units [3: aerodynamics of the main components] 3.4: the duct system, 3.41: survey of the processes at the duct system of power units. In MAP-VG 280-980T + R & T 980 (1947)
4. Behandlungen einzelner Triebwerksarten als Ganzes.
4.1 (with J. Weber) Die Mantelschraube
(with J. Weber)
Turbine and jet units, 4: treatment of individual types of power unit as a whole, 4.1: the ducted screw. MAP-VG 281-981T + R & T 981 + GDC 3229 (1948)
- 1946 (editor, with J. Weber)
Der Einbau von Strahltriebwerken. AVA Monog. Band K3 + R & T 197.
1. Ueberblick über die verschiedenen. Einbaumöglichkeiten und deren jeweilige aerodynamische Aufgaben.
2. Behandlung der aerodynamischen Teilaufgaben.
The installation of jet propulsion units, section 1: survey on the different possibilities of the installation and their aerodynamical problems, and 2.2 (with J. Weber): flow processes in power plants. MAP-VG 237-937T + R & T 937 + GDC 1025T (1947)
3. (with J. Weber) Gegenüberstellung der verschiedenen Einbaumöglichkeiten.
(with J. Weber)
The installation of jet propulsion units, 2: treatise on the aerodynamical problems, 2.5: jet influences and 3: comparison of the different possibilities of installation. MAP-VG 240-940T + R & T 940 + ARC 11606 (1947)

4. Anhang. Ueber die Möglichkeiten, die Auftriebserzeugung mit der Vortriebserzeugung zu verbinden.

The installation of jet-propulsion-units, 4: appendix: on the possibility of connecting the production of lift with that of propulsion, 4.1: survey of the different lines of aeroplane development, 4.2: the jet wing. In MAP-VG 241-941T + R & T 941 + ARC 11704 + GDC 2525T (1947)

1946

(editor, with J. Weber)

Kühlung. AVA Monog. Band J1 + R & T 155 + ARC 10018

1. (with J. Weber) Vorbemerkungen

(with J. Weber)

Cooling, 1: preliminary remarks. MAP-VG 214-914T + R & T 914 + GDC 1659T (1947)

2. (with J. Weber) Die einzelnen Strömungsvorgänge

(with J. Weber)

Cooling, 2: the processes of the flow, 2.1: the radiator in the straight duct. MAP-VG 215-915T + R & T 915 + GDC 1042T (1947)

(with J. Weber)

Cooling, 2: the processes of the flow, 2.2: physical processes of the block with oblique inflow. MAP-VG 216-916T + R & T 916 + GDC 1579T (1947)

(with J. Weber)

Cooling, 2: the processes of the flow, 2.3: the diffuser. MAP-VG 217-917T + R & T 917 + GDC 1030T (1947)

(with J. Weber)

Cooling, 2: the processes of the flow, 2.4: the outflow duct and 2.5: the radiator fairing. MAP-VG 218-918T + R & T 918 + GDC 1027T (1947)

3. (with J. Weber) Der eingebaute Kühler als Ganzes.

(with J. Weber)

Cooling, 3: the installed radiator as a whole, 3.1: the size of the frontal area of the radiator, 3.2: the power loss due to the cooling plant. MAP-VG 219-919T + R & T 919 + GDC 2536T + ARC 11522 (1947)

4. (with J. Weber) Spezielle Einbauformen.

(with J. Weber)

Cooling, 4: special types of installation, 4.1: underslung radiator and wing radiator. MAP-VG 220-920T + R & T 920 + GDC 1029 (1947)

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