



Effects on the Unsteady Flow Through Labyrinths, by  
Leshchinsky

GERMAN, per, Z.V.D.I., Vol LXXVI, No 39/40,  
Oct 1942, pp 609-611.

TPA3/FIB T.2152

Scientific - Engineering  
C/S/DAX

5872

Vacuum-Compressor Rotary Impeller Pumps, by  
F. Kluge.

GERMAN, per, Z. Ver. dtsh. Ing., Vol LXXXVI,  
No 41/42, 1942, pp 623-628.

TPA3/TIB T 3893, P 22305T

EEur - Germany

The Latest Development of the Two-Cycle Engine, by  
J. Zeman, 40 pp.

GERMAN, per, Ver Deut & Ing Z., Vol LXXXVII, No 1-2,  
9 Jan 1943, pp 7-14.

SLA 58-698

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SLA - 58-639

95, 296

On the Fatigue Sensitivity of High-~~222~~ Strength  
Building Steels, by A. Fry, L. Mirschfeld, 21 pp.

GERMAN, per, Ver Deut Ing Z., Vol LXXXVII, No  
9-10, 6 Mar 1943, pp 123-127.

SIA 58-47

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Behavior of Surface Layers in the Presence of  
Operating Loads, by H. Wiegand, 3 p.

GERMANY, par, Verein Deutscher Ingenieure, Zeit,  
1943, Vol LXXVII, No 9/10, pp 137-138.

BLA 59-20578

Sci  
Apr 60  
Vol III, No 2

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Measurement of Tension with the "Ring Indicator",  
by A. Theis.

GERMAN, VDI (Zeitschrift Des Vereines Deutscher  
Ingenieure), Vol 87, No 11/12, 20 March 1943, pp 154- .

USA Corps of Engr, Waterways Exper Sta Tr 43-8

Sci - Engineering, hydraulics, naval  
Spec - Transportation, river, water

Available on loan at Research Center Library

The Latest Development of the Two-Cycle Engine. Part  
II. Constructive Development, by J. Zeman, 29 pp.

GERMAN, par, Ver Daut Ing. Z., Vol LXXXVII, No  
13-14, 3 Apr 1943, pp 177-182.

SLA 58-632

Sci

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SLA 58-639

95, 298

Prevention of Foam in Melting Large Quantities of  
Pitch (Asphalt), by A. Thau.

GERMAN, VDI (Zeitschrift Des Vereines Deutscher In-  
genieure), Vol 87, No 13/14, 3 April 1943, pp 194-

USA Corps of Engr, Waterways Exper Sta Cr 43-11

Sci - Engineering, hydraulics, naval  
Econ - Transportation, river, water

Available on loan at Research Center Library

Fostering of Employee Inventions in German  
Factories, by Ernst Weisse, 6 p.

GERMAN, per, Verein Deutscher Ing Zeit, 1943,  
Vol LXXXVII, No 15/16, pp 201-204.

SLA 59-20392

Sci  
Mar 60  
Vol 2, No 12

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III. Working Processes, by J. Zeman, 21 pp.

GERMAN, per, Ver Deut Ing Z., Vol LXXXVII, No 15-16,  
17 Apr 1943, pp 215-219.

SLA 58-653

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SLA 58-639

95,299

Integrating Machine for Ordinary Differential  
Equations, by R. Sauer, H. Posch

GERMAN, per, Z Ver Dtsch Ing, Vol. LXXXVII, 1943,  
pp 221-224.

TPA3/TIB T.2185

Scientific - Mathematics CPS/DIX  
GDC 10/560LT ?

5503

The Flow Measurement of Viscous Fluids by the Effective  
Pressure Method, by R. Witte

GERMAN, per, Z.V.D.I., Vol LXXXVII, No 19/20, 15 May  
1948, pp 289-290.

TPA3/TIB T.2267

Scientific - Engineering  
JTS/DEK

5881

Bearing Friction and Interface Phenomena, by S.  
Kiesskalt, 12 pp. UNCLASSIFIED

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Ingenieure, NSBDI, Vol LXXXVII, No 21-22, 1943,  
pp 321-324.

Navy Tr 756/BuShips 514

Scientific -  
CTS/DEX

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Measurement of Slight Displacements, by K. Staiger.

GERMAN, VDI (Zeitschrift Des Vereines Deutscher In-  
genieure), Vol 87, No 21/22, 29 May 1943, pp 332- .

USA Corps of Engr, Waterways Engr Sta Tr 43-7

Sci - Engineering, hydraulics, naval  
Econ - Transportation, river, water

Available on loan at Research Center Library

The Stresses Occurring in Die Casting Dies, by  
E. Michel, 10 pp.

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Source, per, Zeitschrift, V.D.I., Vol LXXXVII, 12 Jan  
1943.

S.L.A. Tr 109/1956

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Scientific - Engineering

Detection of "Seperations" In Sheet Material  
With Ultra Sonics, by A. Trost, 7 pp.

GERMAN, per, Verein Deutscher Ingenieure,  
Zeitschrift, Vol LXXXVII, No 23/24, 1943,  
pp 352-354.

SLA 60-14402

Sci  
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OTB, Vol III, No 12

Piezo-Electric Microphone of Small Dimensions,  
by L. J. Goodlet, 1 pp.

GERMAN, per, Z. Ver Deut Ing, Vol LXXXVII, No  
25-26, 26 Jun 1943, p 406.

SLA 58-467

617-511500

Sci  
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Temperature Distribution in a Revolving Cutting  
Tool, by G. Pahlitzsch, H. Hepperdig, 47 pp.

GERMAN, per, Vor Deut Ing Z., Vol LXXXVII, No  
35-36, 4 Sep 1943, pp 564-571.

SLA 58-697

Sci

Aug 59

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Behavior of Light Metal Piston Materials Under  
Stresses Similar to Those of Working Conditions, by  
K. Wellinger, G. Stahl, 26 pp.

GERMAN, per, Ver Deut Ing Z., Vol. LXXVII, No  
41-42, 16 Oct 1943, pp 663-666.

SLA 58-688

Sci

Aug 59

95, 294

Mathematical and graphical treatment of  
flow processes in inlet pipes of piston  
engines, 8 pp.

GERMAN, par, Ver deut Ing 87, nos. 47-48,  
p 753-4, Nov 27, 1943

SIA 58-689

Sci

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94, 376

A Simple Determination of the Hydrogen Content of  
Diesel Fuels by Means of their Heat of Combustion,  
5 pp.

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GERMAN, per, Ver Daut Ing Z., Vol LXXXVI, No 49-50,  
11 Dec 1943, p 784.

SLA 58-690

Sci

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<sup>c e</sup>  
The Measurement of Friction on Small Slide Bearings,  
by G. Frankner, 8 pp.

GERMAN, per, Vor Dent Ing Z., Vol LXXVII, No  
51-52, 1943, p 808.

SLA 58-671

Sci

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Heat Transfer During Knocking in an Ottomotor, ~~pp~~  
13 pp.

GERMAN, par, Ver Deut Ing, Vol LXXXVIII, No 1-2,  
8 Jan 1944, pp 24, 25.

SLA 58-646

Sci

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95, 279

Discharge Measurement by the Conductivity Method, by  
Rudolf Franke.

GERMAN, VDI (Zeitschrift Des Vereines Deutscher In-  
genieure, Vol 88, No 7/8, 19 February 1944, pp 109- .

USA Corps of Engr, Waterways Exper Sta Tr 44-6

Sci - Engineering, hydraulics, naval  
Econ - Transportation, river, water

Available on loan at Research Center Library

Contact Extensometer for Measuring Working Stresses,  
by A. Thum, O. Svenson

GERMAN, Ger. Z. Ver. dtsch. Ing., Vol LXXVIII,  
No 11/12, 28 Nov 1944, pp 153-159.

TTA3/TID 7.2296

Scientific - Engineering  
SIS/INT

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The Combination of Internal-Combustion Engine and  
Gas Turbine, by K. Zinner

GERMAN, PER, VDI Zeitschrift, No 245, 13 May 1944.

S.I.A. Tr Pool

Scientific - Engineering  
CTS/INEX

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Systematic Characterization of Metallic Materials,  
by Erich Siebel, 4 p.

GERMAN, per, Verein D I Zeit, 1944, Vol LXXXVIII,  
No 19/20, pp 256-257.

SLA 59-17281

or SLA TT-64-10068(10pp)

Sci  
Jan 60  
Vol 2, No 6

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62-18236

Pahlitzsch, G.  
DEEP COOLING IN METAL MACHINING [Tiefkühlen  
bei der Metallzerspanung]. [1962] 11p. (figs. table,  
refs. omitted).  
Order from SLA \$1.60      62-18236

I. Pahlitzsch, G.

Trans. of V[erein] D[eutscher] I[ngenieure]. Zeit-  
schr[ift] (Germany) 1944, v. 88, no. 27/28, p. 365-371.  
Another trans. is available from SLA ml\$2.40, ph\$3.30  
as 59-20107 [1946] [17]p.

DESCRIPTORS: \*Metals, Machining, \*Machine tools,  
Cooling, \*Refrigeration systems, Lathes, Lubrication.

(Metallurgy, TT, v. 9, no. 2)

Office of Technical Services

Recent Results on High-Pressure Axial Blowers, by  
B. Eckert, 15 pp.

GERMAN, per Zeitschrift des Vereines Deutscher  
Ingenieure, Vol LXXXVIII, No 37/38, 16 Sep 1944,  
pp 516-520

S.L.A. Tr Pool  
as AL-214  
7 TT-63-20825

Scientific - Engineering  
CTS/DEX

14,302

Alternating Bending Strength of Case Hardened and  
Nitrided Steels with Grinding Cracks, by H.  
Staudinger, 12 p.

GERMAN, per, Verein Deutscher Ingenieurzeit, 1944,  
Vol LXXVIII, No 51/52, pp 681-685.

SLA 59-20576

Sci  
Mar 60  
Vol 3, No 1

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62-10323

1. Zeunert, G.

Zeunert, G.  
DEVELOPMENT OF THE THREE-WHEEL AUTO-  
MOBILE (Zur Entwicklung des Dreirad-  
Kraftwagens). [1961] [9]p. (foreign text included)  
8 refs.  
Order from SLA \$1. 10 62-10323

Trans. of V[erein] D[eutscher] I[n]genieure.  
Zeitschrift (West Germany) 1948, v. 90, no. 4,  
p. 123-124.

DESCRIPTORS: \*Vehicles, \*Passenger vehicles,  
\*Vehicle wheels, Cargo vehicles, Design.

After discussing the nonuniform pre-war develop-  
ment of the three-wheel automobile, the present  
direction of development of the three-wheel truck  
and three-wheel passenger car is shown by a model  
of both. (Translator)  
(Machinery--Transport, TT, v. 7, no. 8)

201325

Office of Technical Services

New Strength Calculation Methods, by E. Siebel, 11 pp.

Full translation.

GERMAN, per, VDI Zeitschrift, Vol XC, No 5, May 1948,  
pp 135-139.

S.L.A.

Scientific = Engineering

*27,249*

Aug 55

Locus Curve Method for Regulators With Friction, by W. Oppelt.

Full translation.

GERMAN, per, Zeitschrift des Vereins Deutscher Ingenieure  
Vol 90, 1948, pp 179-183.

AEC Tr 1356

Sci - Engr?

Aug 52 CTS

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Calculation of Railway Car Springs, by E. Sperling,  
9 pp.

GERMAN, per, VDI Zeitschrift, Vol XC, NO 10, Oct  
1948, pp 318-322.

S.L.A. Tr      672/1955

Sci - Engineering  
Apr 1957 CTS/dex

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63-10007

Vieweg, R.  
PRESENT SITUATION IN THE FIELD OF PLASTICS.  
[1962] 7p.  
Order from SLA \$1.10      63-10007

I. Vieweg, R.

~~Trans. of V[erein] D[eutscher] I[ngenieur]e[r]. Zeits-  
[chrift] [West Germany] 1948, v. 90 [no. 11] p. 331-  
334.~~

DESCRIPTORS: \*Plastics, Silicone plastics, Fluorine,  
Halocarbon plastics, Processing, Plastic industry.

(Materials--Plastics, TT, v. 9, no. 10)

Office of Technical Services

Böcker, A.  
GREASE LUBRICATION: CHARACTERISTICS AND  
APPLICATIONS OF LUBRICATING GREASES. [1962]  
6p. (refs. omitted).  
Order from SLA \$1.10                      62-16933

Trans. of V[erein] D[eutscher] I[ngenieur]e. Z[eits-  
[chrift] (West Germany) 1948, v. 90, no. 12, p. 366-  
368.

DESCRIPTORS: \*Lubrication, \*Greases, Production,  
Machines.

(Materials--Lubricants, TT, v. 9, no. 2)

62-16933

I. Böcker, A.

Office of Technical Services

62-18409

Kegel, K.  
HIGH FREQUENCY HEATING, ITS PRINCIPLES AND  
APPLICATIONS. 12 July 49, 14p. (figs. omitted).  
Order from SLA \$1.60 62-18409

I. Kegel, K.

Trans. of V[erein] D[eutscher] I[n]genieure].  
Z[er]ts[chrift] (West Germany) 1949, v. 91, no. 2,  
p. 25-32.

DESCRIPTORS: \*Heaters, High frequency, Electrical  
equipment, \*Induction heating, \*Dielectrics, Heattrans-  
fer, Thermal conductivity, Generators, Driers  
(Apparatus) Melting.

(Engineering--Electrical, TT, v. 9, no. 4)

Office of Technical Services

Results From Strength Tests With Railway Axles  
Used as a Basic for Their Calculation, by  
E. Sperling.

GERMAN, per, V.D.I. Zeitschrift, Vol XCI, No 6,  
1929, pp 134-136.

BTC 303

Sci - Engr  
Feb 63

Shell Construction of Concrete Ships  
Ulrich Finsterwalder, 15 pp., UNCLASSIFIED

GERMAN, reprint from no ~~12~~<sup>I</sup> per, ZVDI, Vol IX, No 7,  
1949, pp 157-163, paper read at German Concrete  
~~XXXXX~~ Society, Wiesbaden.

Navy Tr 736/OHI 1160

WEur - Germany

Scientific - Engineering  
Economic - Shell, construction, concrete ships

1095

Apr 53 CFS

The Consumption of Energy in Transportation of  
Loads, by H. Spitzer, 11 pp.

GERMAN, per, VDI Zeit. Vol XCI, No 8, 15 Apr 1949,  
pp 177-181.

CIA/FDD/X-2025

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Scientific - Medicine      Mar 56 CTS/DEX

Goals, Means and Constructive Evaluation of  
Flow Research, by A. Betz, 17 pp.  
GOVERNMENT USE ONLY  
GERMAN, per, Z des Vereines Deutscher Ingenieure,  
Vol XCI, No 1, 1949, pp 253-258. 9692349  
DDC RSIC-152

Sci - Engr  
May 64

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Synthesis of Edible Fats, by  
K. H. Imhausen.  
GERMAN, per, Z. Ver Deut Ing (VDI),  
Vol KCI, 1949, pp 463-467.  
NASA TT F-9894

U. S. GOVERNMENT USE ONLY  
Sci-B&M  
Apr 66

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V  
An Easily-Operated Permanent-Magnet Instrument for  
the Accurate Measurement of Coating Thickness, by  
R. Berthold.

GEIMAN, Z.V.D.I., Vol XXI, No 18 Sep 1949.  
*pp 476-478 CSIRO*

B.S.A. Group Research C.  
GRC/AE 133  
P 2179TT

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Scientific - Engineering

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Rotary-Piston Pumps and Rotary-Piston Power  
Engines, by Hans-Ulrich Tanzler, 24 pp.

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pp 235-246,

AEC UCRL-Trans-503(L)

Sci - Engr  
14 Oct 60

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Berthold, R.  
HANDY GAGE OF HIGH ACCURACY FOR THE  
MEASUREMENT OF THICKNESS OF COATINGS.  
[1962] 6p. (re's. formulae figs. omitted).  
Order from SLA \$1.10      62-16930

Trans. of V[erein] D[eutscher] I[n]genieure]. Z[eit]-  
[schrift] (West Germany) 1949, v. 91, no. 18,  
p. 476-478.

DESCRIPTOR: \*Coatings, Thickness, Gages,  
Measurement.

(Materials--Finishes, TT, v. 8, no. 9)

62-16930

I. Berthold, R.

Office of Technical Services

Influence of Extrusion Upon Structure and Strength of  
Age-Hardening Aluminium Alloys, by H. J. Seeman.

GERMAN, per, Z Ver Dtsch Ing, Vol XCI(23), 1.12. 1949,  
pp 621-26.

Aluminium Laboratories, Ltd  
Tr No B-EM-101-52 OT/417

Scientific - Engineering, extrusion, structure, age-  
hardening, aluminium, alloys

Index Aeronauticus

Tooth Bending and Appropriate Tip Relief and Root  
Filletts, 3 pp. <sup>UNCLASSIFIED</sup> *by G. Dietrich*  
*Vol LXXXII,*  
GERMAN, per, *VDI-Zeitschrift, 1949, No 32,*  
12 Aug 1949, p 938.

Navy Tr 1086/OEI 1288

Scientific - Engineering

Dec 54 CTS/DEX

*20,447*

The Application of Model Experiments for the  
Solution of Problems in Fluid Mechanics, by  
W. ~~W.~~ Barth.

GERMAN, Z. Ver dtsch Ing, Vol LLXII, No 5, 1950,  
pp 105-110.

DSIR/5118/CT

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Scientific - Min/Metals

TT-63-20459

Nicolaus, H. O.  
TITANIUM IN TECHNOLOGY. [1963] 33p 75refs  
Order from SLA \$3.60 TT-63-20459

I. Nicolaus, H. O.

Trans. of Verein Deutscher Ingenieure. Zeitschrift.  
(West Germany) 1950, v. 92, no. 7, p. 153-160.

A survey with 75 references.

DESCRIPTORS: \*Titanium, Industrial production,  
Density, Corrosion inhibition, Purification, Electric  
furnaces, Tensile properties,

(Metallurgy--Light Metals, TT, v. 11, no. 5)

Office of Technical Services

62-18158

Egner, E.  
WEAR RESISTANCE OF FLOOR COVERINGS  
(BASED ON SHORT PERIOD TESTS). [1962] 7p.  
(16 figs. 2 tables, refs. omitted).  
Order from SLA \$1.10

62-18158

I. Egner, E.

Trans. of V[erein] D[eutscher] I[ngenieure]. Zeit-  
schrift (West Germany) 1950, v. 92, no. 7, p. 169-173.

DESCRIPTORS: \*Floors, Friction, Resistance.

(Materials, TT, v. 8, no. 9)

Office of Technical Services

The Theory of Gases at High Speed Principles and  
Suggestions for the Design of Turbines, by  
Albert Betz, 21 pp.

GERMAN, ~~ENG~~, Zeitschrift des Vereines Deutscher  
Ingenieure, Vol XCII, No 9, 1950, pp 201-206.

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Multiple Notch Effect: Stress-Relieving Notches  
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O. Svenson.

GERMAN, per, Z. Ver dtach Ing, Vol XCII, No 10,  
1950, pp 225-230.

Aluminium Laboratories, Ltd  
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Preservation of Dried Foodstuffs by Keeping  
the Oxygen Content at Low Level, by I. R.  
Heiss, 12 pp.

GERMAN, per, Z. Ver Deut Ing, Vol XCII, No  
18, 1950, pp 452-456.

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Determination of the Suspension Velocity of Bulk  
Materials in Pneumatic Conveying Systems, by E.  
Wagon, 17 pp.

GERMAN, per, Z Ver Deut Ing, Vol XCII, 21 Jul 1950,  
pp 577-580.

SIA Tr 2422

Sci - Engineering

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63-16230

I. Rosahl, O.

Rosahl, O.  
FLOW, IGNITION AND COMBUSTION IN THE  
COMBUSTION CHAMBERS OF MODERN LARGE  
STEAM GENERATORS. [1963] 27p. (figs. omitted)  
18 refs.  
Order from SLA \$2.60                      63-16230

Trans. of Verein Deutscher Ingenieure. Zeitschrift  
(West Germany) 1951, v. 93, no. 2, p. 25-36.

DESCRIPTORS: Gas flow, \*Ignition, \*Combustion,  
Combustion chambers, Combustion chamber gases,  
\*Steam power plants, Boilers, \*Fuel injection, Coal,  
Fuels.

(Engineering--Mechanical, TT, v. 10, no. 8)

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Examples of the Application of Photoelasticity,  
by L. Foppl.  
GERMAN, per, Zeit des Vereines Deutscher Ingenieure,  
Vol XCIII, No 5, 1951, pp 105-112. 9694647  
DDC RSIC-196

Sci - Engr  
Oct 64

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Small Helical Gears. The Effect of the Helix Angle  
on Temperature Rise, Wear, Surface Strength, Root  
Strength and Noise, by Hiemann, G., and Glaubitz.

H.

GERMAN, per, F. Z. Ver. deut. Ing., Vol XCIII, No 9,  
1951, pp 215-222.

Assoc Tech Sv  
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Sci - Engineering, Electricity

(816.55)

Gear Testing Stand with Output up to 1000 H. P. and  
Rotational Speeds of 280-4000 R. P. M. , by K.  
Wellinger, E. Keil, H. Glaubitz, 10 p.

GERMAN, per, Verein Deutscher Ingenieure, Zeit,  
1951, Vol XCIII, No 9, pp 236-238.

SLA 60-10231

Sci  
Apr 60  
Vol III, No 3

111, 976

On the Problem of the Life of Ball and Roller Bearings.  
by A. Kobaut.

Full translation.

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Scientific - Engineering

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The Present Status of Continuous Pressing and ~~Extrusion~~  
Kneading Process Techniques in the Chemical and  
Allied Industries, by K. Riess and R. Erdmenger,  
12 pp.

GERMAN, per, Z. Ve-Deut Ing, Vol. XCIII, 1951,  
No 19-20, pp 633-638.

Sci

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Aug 58

Mechanical and Optical Behavior of Hot-formed  
Flexiglass M 33 Under Tensile Stress, by  
I. H. Peukert, 4 pp.

GERMAN, par, Z. Ver Deut Ing, Vol XCIII, No 26,  
11 Sep 1951, p 831.

SLA 3191

Sci

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The Servo-Pump and Its Application to Machine Design  
by E. Greiner.

GERMAN, per, Z VDI, Vol XCIII, 1951, pp 921-925.

DSIR/30533/CT

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Feb 58

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Question of Residual Stresses Due to Cold  
Working and Their Decrease, by H. Bühler, 5 pp.

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Oct 1951, pp 932, 933.

S. L. A.

Scientific - Engineering

CTS 68/May 55

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Gear Research and Lubricants, by E. Heidebroek, 6 pp.

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No 32, 1951, pp 1012-1014.

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Sci - Engr  
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*JTC-512-45*

*89,541*

Tooth Base Strength of Straight Toothed Steel Spur  
Gears, by G. Niemann, H. Gleubitz, 9 pp.

Full translation.

GERMAN, per, VDI Zeitschrift, Vol XCIII, No 33,  
Nov 1951, pp 1050-1053.

S.L.A.

Scientific - Engineering

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Centrifugal Casting, by P. A. Heller.

GERMAN, per, Vereines Deutschen Ingenieure Z,  
Vol XCIII, No 35, 11 Dec 1941, pp 1098-1100.

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Sci - Engr

May 62

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The Effect of the Guiding Device on the Characteristic  
of Centrifugal Pumps, by F. Krizan.

GERMAN, per. Z Ver dtach Ing, Vol XCIV, No 11-12,  
1952, pp 19-22.

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The Resonator as a Possibility of Reducing  
the Consumption of Fuel by Turbo-Drive Power  
Plants of Aircraft, by P. H. Reynst, 12 p.

GERMAN, per, Verein Deutscher Ingenieure, Zeit,  
1952, Vol XCIV, No 3, pp 79-84.

BLA 59-J.7933

Sci  
Mar 60  
Vol 2, No 11

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Measurement of Residual Stresses in Bars and Tubes  
With the Aid of Strain Gages, by H. Bühler,  
W. Schreiber, 8 pp.

GERMAN, per, Zeitschrift VDI, Vol XCIV, No 8,  
Mar 1952, pp 216-218.

S. I. A.

Scientific - Engineering

CTS 68/May 55

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An Interference Method of Investigating  
Rough Surfaces, by E. Zehender. UNCLASSIFIED

GERMAN, par, Z. Verein Deutsch. Ing. Vol XCIV,  
1952, pp 456-458.

DSIR/32418/CT

Sci - Engt  
Oct 58

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The Behaviour of Materials and Connections  
in their Welded Joints at Low Temperatures, by  
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11. Jan 1952, pp 519-527.

British Iron and Steel Inst  
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Sci - Min/Net  
Sep 59

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Sewing Machines and Sewing Machine Drives, by  
Anton Kloss, 10 p.

GERMAN, per, Verein Deutscher Ingenieure, Zeit,  
1952, Vol XCIV, No 19, pp 595-598.

SLA 59-17929

Sci  
Mar 60  
Vol 2, No 11

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Critical Considerations on the Question of Pipe  
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