

Fluorescence of Flasmochin X and Its Use As  
a Fluorescent Indicator, by Ilija Buric,  
Bosko Drenkovic, 6 pp.

SERBO-CROATIAN, per, Glasnik Hemijskog Drustva,  
Vol XXVII, No 5, 6, 1962, pp 271-276.

OID 62-11737/5-6  
PL-480

Sci - Chem  
JUL 64

248,743

Semi-quantitative Determination of Micro Amounts of Ions by Visual Colorimetry of Spots Obtained by Partition Paper Chromatography. I. The Determination of Mercury, Copper, Cadmium, Zinc, Uranium, and Iron, by Tomislav J. Janjic, Miroslav B. Galap, 6 pp.

SERBO-CROSIAN, per, Glasnik Hemijskog Društva, Vol. XLVII, No 5, 6, 1962, pp 283-287.

OTS 62-11757/5-6  
PL-480

248,744

Sci - Chem  
Jan 64

A Contribution to the Iodometric Determination of  
Novalgin, by Borislav Budimic, Dragica Dumanovic,  
6 pp.

SERBO-CROATIAN, per, Glasnik Hemijskog Drustva,  
Vol XLVII, No 5, 6, 1962, pp 293-297.

OTS 62-11757/5-6  
FL-480

Sci - Chem  
Jan 64

248,745

BOZANOVIC, Jovan Bosnjak, 14 pp.  
SERBO-CROATIAN, per, Glasnik Hrvatskog Drustva,  
Vol XLVII, No 5, 6, 1962, pp 299-309.

OPS 62-11757/65-6  
PL-480

Sci - Chan  
Jan 64

248,746

N-Benzoylphthalimide III. Reaction With Hydrazines,  
by Jovan Bosnjak, Rastko Mamuzic, 8 pp.

SERBEO-CROATIAN, per, Glasnik Hemijskog Društva.  
Vol XXVII, No 5, 6, 1962, pp 313-318.

OTS 62-11757/5-6  
PL-480

Edi - Chem  
Jan 64

248, 739

A Contribution to the Investigation of  
The Brass Hammering Phenomenon, by Branko Bonic,  
Rada Vidovic, 12 pp.

SRBNO-CROATIAN, per, Glasnik Hemijskog Društva,  
Vol XXVII, No 5, 6, 1962, pp 327-338.

OTS 62-11757/5-6  
EL-480

Sci - Chem  
Jan 64

248,740

A Contribution to the Study of the Equilibrium Diagram  
of the Fe - As System, by Branko Bonic, Nada Vidojovic  
8 pp.

SERBO-CROATIAN, per. Glasnik Hemijskog Društva, Vol. XXVII  
No 5, 6, 1962, pp 341-348.

OZS 62-11757/5-6  
PL-480

Sci - Chem  
Jan 64

248,741

Belgrade.      Chemical Society  
SERBO-CROATIAN, per, Glasnik Hemijskog  
Društva - Beograd, Vol 28, No 8-9, 1963.

CISTI  
TT-63-11452/8-9

ABC NP - W 1309

Sci/Chemistry  
Nov 65'

292,022



NEW ECONOMIC CONDITIONS FOR MANAGEMENT OF  
AGRICULTURE, BY STEVAN MIHAILOVIC, 11 PP.

CROATIAN, PER, GLASNIK POLJOPRIVREDNIH I ZADRUZNIH  
ORGANIZACIJA, VOL 11, NO 12, 1962,  
PP 3-6.

JPRS 171852

EEUR - YUGOSLAVIA

ECON

JAN 63

219,685

NEW CONDITIONS RELATING TO CREDIT FOR BUYING  
AGRICULTURAL EQUIPMENT, 6 PP.

SERBOCROATIAN, PER, GLASNIK POLJOPRHVREDNIH  
I ZADRUZNIH ORGANIZACIJA, VOL III, NO 7-8,  
1963, PP 14-16.

JPRS 21491

EE-YUGOSLAVIA  
ECON  
OCT 63

326,6L6

CONDITIONS FOR PROFITABLE OPERATION AND  
SOCIALIZATION OF LAND AND PRODUCTION PROCESS,  
BY B. SEKULARAC, 10 PP.

CROATIAN, PER, GLASNIK POLJOPRIVREDNIH I  
ZADRUZNIH ORGANIZACIJA, VOL 11, NO 13,  
1962, PP 7-10.

JPRS 17213

EEUR - YUGOSLAVIA  
ECON  
JAN 63

220,408

THE PROBLEMS AND PROSPECTS IN FURTHER EXPANSION  
OF THE SOCIALIZED LAND AREA, BY XX T.  
MILENKOVIC, 10 PP.

CROATIAN, PER, GLASNIK POLJOPRIVREDNIH I  
ZADRUZNIH ORGANIZACIJA, VOL II, NO 13, 1962,  
PP 11-14.

JPRS 17213

EUR - YUGOSLAVIA  
ECON  
JAN 63

220,409

THE ADVANTAGES AND DISADVANTAGES OF MERGINS  
OF COOPERATIVES, BY B. SEKULARAC, 10 PP.

CROATIAN, PER, GLASNIK POLJOPRIVREDNIH I  
ZADRUZNIH ORGANIZACIJA, VOL 11, NO 12,  
1962, PP 15-18.

JPRS 17152

EEUR - YUGOSLAVIA  
ECON  
JAN 63

219,6868

ANALYSIS OF 1962 ACCOUNTS IN GENERAL AGRICULTURAL  
COOPERATIVES, 23 PP.

SERBOCROATIAN, PER, GLASNIK POLJOPRIVREDNIH I ZADRU-  
ZNIH ORGANIZACIJA, VOL III, NO 6, 1963, PP 9, 19

JPRS 20928

EE-YUGOSLAVIA  
ECON  
SEP 63

3R43,201

THE 1962 ACTIVITY OF THE AGRICULTURAL COOPERATIVES  
AND FUTURE TASKS L2 PP.

SERBOCROATIAN, PER, GLASNIK POLJOPRIVREDNIH I  
ZADRUZNIH ORGANIZACIJA, VOL III, NO 7-8,  
1963, PP 7-11.

JPRS 21491

EE-YUGOSLAVIA

ECON  
OCT 63

346,6L5

A New Instruction on the way to Determine Cadastral Income,  
by anonymous author, 7 pp.

SERBOCROATIAN, per, Glas Poljopriv i zadrug organiz, Vol III,  
No 10, 1963, pp 56-60.

JPRS 22811

EE-Yugoslavia  
Econ  
Jan 64

247, 005



Analysis of 1962 Operations in Agricultural Organizations, by  
Milovan Ivanovic, 9 pp.

SERBOCROATIAN, per, Glas Poljopriv i zadrug organiz, Vol III,  
No 10, 1963, pp 11-18.

JPRS 22810

Sci-Agri  
Jan 64

247, 004

Ralph, L.

Diptera Taken in Yugoslavia From May to July 1955,  
With Localities and Notes.

SERVO-CROATIAN, bk, Diptere iz Jugoslvije,  
prikupljanje of maja do jula 1955, sa naznakom  
nalazista i primedbama. - Glasnik Prirodnjackog muzeja  
Srpske zemlje, 1956, Ser. B. Vol. VIII, No. 2,  
pp. 75-96.

\*PL 480  
OTS 61-11250/1

Jan 62

Adamovic, Zivko R.

Orthoptera Collected in the Surrounding Country of  
Mostar, Hercegovina.

SERVO-CROATIAN, bk, Orthoptera prikupljane u okolina  
M stara, Hercegovina. Glasnik Prirodnjackog muzeja  
srpske zemlje, 1956, Ser. B., Vol. VIII, No. 2,  
pp. 129-172.

\*PL 480  
OTS 61-11250/2

Jan 62

Colyer, Charles N.

Two New Species of Megasalia (DIPT. PHORIDAE) From  
Yugoslavia. Glasnik Prirodnjackog muzeja srpske  
zemlje, 1956, Ser. B. Vol. VIII, No. 2, pp. 97-100.

\*PL 480  
OTS 61-11250/3

Jan 62

(DC-3000/51)

Types and Number of Agricultural Schools,  
by H. Gojkovic, 9 pp.

SERBO-CROATIAN, per, Glasnik Saveza  
Poljoprivredno-Sumarskin Komara Jugoslavije,  
Vol VI, No 7/8, 1960, pp 13-18.

JPRS 8085

EUR - Yugoslavia  
Soc  
Apr 61

148,945

Some Structural Characteristics of Double (False)  
Growth Rings, by S. Vasiljevic, 5 pp.

SERBO-CROATIAN, per, ~~some~~ Glasnik Sumarskog  
Fakulteta (Beograd), No 9, 1957, pp 311-315.

~~SO:9999~~

OTS 60-<sup>2</sup>81638  
PL-480

199,465

Sci - Biol

Jun 62

Reliability of Aerophotogrammetry for Some  
Dendrometrical Needs in Forest Management, by S.  
Tomasegovic,

SERBO-CROATIAN, per, Glasn Sumske Pokuse, No 12,  
1956, pp 167-224.

\*possibly PL-490

Sci - Biol  
May 61

Bulletin of the Chemical Society.

CROATIAN, per, Glasnik ~~SR~~ Srpsko Hemisko Drustvo, Vol  
XXVIII, Nos 1-10, 1963.

\*PL-430

Sci  
Jul 63



O. K. Stojanovic

Synthesis of 4,4'-bis-Methylaminobenzophenone  
From Michler's Ketone.  
SERBO-CROATIAN, per, Srpsko, Hemisko Drustvo.  
Glasnik, Vol 28, 1963, pp 453-459  
CSIRO-Trans-10740  
NTC 72-13415-07C

Oct 72

Investigations on the Distribution of Some Physical  
Properties of Wood in the Stem of the Narrow-leaved  
and Common Ash, by R. Benic, 26 pp.

SERBO-CROATIAN, per, Glasnik za Sumske Pokuse,  
Vol XIII, 1957, pp 509-536. 9067303

OTS 60-21653  
PL-480

Sci - Biol

Oct 62

213,043

(DC-3003).

Bulletin of the University of Belgrade, 72 pp.

CROATIAN, per, Glasnik Univerziteta u Beogradu,  
Vol II, No 7, Belgrade, 1958, pp 175-178, 190,  
191.

JPRS 3486

EEur - Yugoslavia  
Soc  
Aug 60

722, 713

Constitution of the Moslem Religious Community in the  
Federal People's Republic of Yugoslavia, 16 pp.  
UNCLASSIFIED

SERBIAN, per, Glasnik Vrhovnog Islamskog Starjesinstva,  
No 7-9, Jul-Sep 1959, pp 373-381, Encl to Desp No 26,  
Amconsul, Sarajevo, 28 Sep 1959.

Dept of State  
4248435

EE - Yugoslavia  
Soc  
Nov 59

101,682

63-20138

1. Gehlhoff, G.

Gehlhoff, Georg.  
THE PHYSICS OF GLASS. [1953] [41p] 33 refs  
Order from SLA \$4.60 63-20138

Trans. of Glastechnische Berichte (Germany) 1928,  
v. 6, no. 8, p. 414-417.

DESCRIPTORS: \*Glass, Viscosity, Electrical con-  
ductivity, Fracture (Mechanics), Chemical analysis,  
Transformations, Mechanical properties.

(Materials--Ceramics, TT, v. 10, no. 11)

Office of Technical Services

63-20147

Jaeckel, Georg.  
THE DECOLORIZATION OF GLASS. [1963] 24p (figs.  
tables omitted) 7refs  
Order from SLA \$2.60

63-20147

Trans. of Glastechnische Berichte (Germany) 1930,  
v. 8, no. 5 [p. 257-265].

DESCRIPTORS: \*Glass, \*Colors, Light transmission,  
Chemical reactions, Absorption, \*Reduction  
(Chemistry), Permeability, Iron compounds, Oxides.

I. Jaeckel, G.

(Materials--Ceramics, TT, v. 10, no. 11)

Office of Technical Services

Enamel Coatings on Glass, by F. Siroupy.  
GERMAN, per, Glastech. Ber., Vol 9, 1931,  
pp 345-349.  
INSDOC/Ref: T. 4031. pp. 11

Sci -  
Aug 67

335,166

Effect of Glass Manufacture and Working on  
its Brittleness, by A. Russ.

GERMAN, per, Glastechnische Berichte  
Vol IX, No 10, 1931, pp 529-545.

BGIRA-616

Apr 67

323,130





62-18113

Hänlein, W.  
CONCERNING THE SPECIFIC GRAVITY OF GLASS IN  
DEPENDENCE ON THE TEMPERATURE (Über das  
Spezifische Gewicht von Glas in Abhängigkeit von der  
Temperatur). [1962] [17]p. (foreign text included)  
20 refs.  
Order from SLA \$1.60 62-18113

I. Hänlein, W.

Trans. of Glastechnische Berichte (Germany) 1932,  
v. 10, no. 3, p. 126-130.

DESCRIPTORS: \*Glass, \*Density, \*Temperature, Cal-  
cium compounds, Oxides, Magnesium compounds,  
Transformations (Mathematics), Series, Measure  
theory.

There is described a method for the determination of  
the specific gravity of glasses at high temperatures.  
For the relation between the temperature and the spe-  
(Materials--Ceramics, TT, v. 9, no. 3) (over)

Office of Technical Services

63-14505

Metzger, K.  
OLD AND NEW LEHRS FOR HOLLOW GLASS.  
[1963] 23p. (figs. omitted).  
Order from SLA \$2.60                      63-14505

I. Metzger, K.

Trans. of Glastechnische Berichte (Germany) 1932,  
v. 10 [no. 8] p. 411-420.

DESCRIPTORS: \*Glass, \*Furnaces, Annealing,  
Design, Operation, Fuel consumption.

(Materials--Ceramics, TT, v. 10, no. 5)

Office of Technical Services

On the <sup>4</sup>Computation of the Radiation Conductivity in  
Glasses, by Indrig Genzel, 9 pp.

GERMAN, per, Glastechnische Berichte, **29** Vol XXVI,  
No 3, 1953, pp 69-71.

Navy Tr 3289/TRL 919

Sci - Phys

Jan 63

219,883

Endothermic Effect in the Softening Zone  
of Silicate Glasses, by F. Eckert, I.  
Westerman.

GERMAN, par, Glastechnische Berichte,  
Vol X, 1932, pp 30-37.

CSIRO

Sci - Phys  
May 62

196,406

The Representation in the Laboratory of Industrial  
Melting Processes, by H. Jøbsen-Marvedal, A. Becker.

GERMAN, par, Glastech Ber, Vol XIII, No 4, 1935,  
pp 109-113.

ASLIB-ORLO;

Sci

Aug 59

94,180

Kindt, B.  
BEHAVIOR OF GLASS DURING MECHANICAL  
WORKING OF A SPECIAL SORT. [1963] 5p (figs.  
omitted)  
Order from SLA \$1.10 63-20139

Trans. of Glastechnische Ber[ichte] (Germany) 1935,  
v. 13 [no. 7] p. 245-247.

DESCRIPTORS: \*Glass, Mechanical working,  
Machine tools, Mechanical properties.

(Materials--Ceramics, TT, v. 10, no. 11)

63-20139

I. Kindt, B.

Office of Technical Services

<sup>e</sup>  
Comparative Tests of the Polishing Actions of  
Metallic Oxides, by U. Haberland, P. Haubert,  
M. Werner, 10 p.

GERMAN, per, Glastech Ber, 1936, Vol XIV,  
No 2, pp 60-66

SLA 60-10056

Sci  
Apr 60  
Vol XII, No 3

111,999



TT-64-10536

Heldtkamp, G. and Endell, K.  
CONCERNING THE DEPENDENCE OF DENSITY AND  
VISCOSITY ON THE TEMPERATURE IN THE SYS-  
TEM  $\text{Na}_2\text{O}-\text{SiO}_2$ ; A CONTRIBUTION TO THE EX-  
PLORATION OF THE INNER STRUCTURE OF  
GLASSES (Über die Abhängigkeit der Dichte und der  
Zähigkeit von der Temperatur im System  $\text{Na}_2\text{O}-\text{SiO}_2$ .  
Ein Beitrag zur Erforschung des Inneren Aufbaus von  
Gläsern). [1964] [49p] (foreign text included) 30refs  
Order from SLA \$4.60 TT-64-10536

- I. Heldtkamp, G.
- II. Endell, K.
- III. Title: Contribution ...
- IV. Title: Beitrag ...

Trans. of Glastechnische Berichte (Germany) 1936,  
v. 14, no. 3, p. 89-103.

(Materials--Ceramics, TT. v. 12, no. 2)

Office of Technical Services

<p>Smekal, Adolf. THE NATURE OF THE MECHANICAL STRENGTH PROPERTIES OF GLASS. [1963] 25p (figs. refs omitted) Order from SLA \$2.60                      63-20141</p> <p>Trans. of <u>Glastechnische Berichte</u> (Germany) 1937, v. 15, no. 7, p. 259-270.</p> <p>DESCRIPTORS: *Glass, Mechanical properties, Brittle materials, Fracture (Mechanics)</p> <p>(Materials--Ceramics, TT, v. 10, no. 11)</p>	<p>63-20141</p> <p>1. Smekal, A.</p> <p>Office of Technical Services</p>
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63-20140

Smekal, Adolf.

THE NATURE OF THE INFLUENCE OF WIDTH OF  
SPECIMEN ON THE BENDING STRENGTH OF FLAT  
GLASS. [1963] 6p (refs omitted)

Order from SLA \$1.10

63-20140

I. Smekal, A.

Trans. of Glastechn[ische] Ber[ichte] (Germany) 1937,  
v. 15 [no. 7] p. 282-285.

DESCRIPTORS: \*Glass, \*Optical glass, Loading  
(Mechanics), Rupture.

(Materials--Ceramics, TT, v. 10, no. 11)

Office of Technical Services

62-16396

Löffler, Johannes.  
SELENIUM PINK AS GLASS DYE AND THE IN-  
FLUENCE EXERTED ON IT BY RARE EARTHS  
(Selenrosa als Glasfarbe und seine Beeinflussung durch  
Seltene Erden). Lecture at the Glass-Technical Con-  
vention (no. 20) Berlin, 21 Jan 37. [1962] [17]p.  
(foreign text included) 10 refs.  
Order from SLA \$1.60

62-16396

Trans. of Glastechn[ische] Ber[ichte] (Germany) 1937.  
v. 15, no. 10, p. 389-393.

DESCRIPTORS: Glass, Selenium compounds, Dyes,  
Rare earths, Colors

(Unannounced)

I. Löffler, J.  
II. Title: Glass-Technical...

Office of Technical Services

Schardin, H. and Struth, W.  
HIGH-FREQUENCY CINEMATOGRAPHY STUDY OF  
THE CRACKING PROCESSES IN GLASS (Hochfrequen-  
zkinematographische Untersuchung der Bruchvorgänge  
im Glas). [1962] [24]p. (foreign text included) 4 refs.  
Order from SLA \$2.60

62-16466

63-20145

Trans. of Glastechnische Berichte (Germany) 1938,  
v. 16, no. 7, p. 219-227.

DESCRIPTORS: \*Glass, Fracture (Mechanics),  
Photographic analysis, High frequency.

(Unannounced)

62-16466  
63-20145  
I. Schardin, H.  
II. Struth, W.

Office of Technical Services

63-20144

Smekal, Adolf.  
THE SIGNIFICANCE OF SCHARDIN'S VELOCITY OF  
BREAK PROPAGATION [Bedeutung der Schardin'schen  
Bruchausbreitungsgeschwindigkeit]. Application of  
paper read at the Glass Technologists Meeting (no. 21)  
Berlin, 16 Feb 38. [1963] 16p (figs. refs omitted)  
Order from SLA \$1.60 63-20144

Trans. of Glastechnische Berichte (Germany) 1938,  
v. 16 [no. 7] p. 228-231.  
Another trans. is available from SLA \$1.60 as  
62-14905 [1962] [20p].

DESCRIPTORS: \*Glass, Fracture (Mechanics),  
Brittle materials, Propagation, Velocity

(Materials--Ceramics, TT, v. 10, no. 11)

- I. Title: Schardin's theory
- I. Smekal, A.
- II. Title: Glass...

Office of Technical Services

TT-64-14035

Kruger, F.  
CONCERNING DEGASSING OF GLASS MELTS WITH  
SOUND WAVES (Über die Entgasung von Glasschmelzen  
durch Schallwellen). [1963] [10p] (foreign text included)  
refs  
Order from SLA \$1.10      TT-64-14035

I. Kruger, F.

Trans. of Glasstechn[ische] Ber[ichte] (Germany) 1938,  
v. 16, no. 7, p. 233-236.

(Materials--Ceramics, TT, v. 12, no. 1)

Office of Technical Services

63-20143

Geffcken, W[alter] and Berger, E.  
FUNDAMENTALS OF CHEMICAL DURABILITY OF  
GLASS, II [1963] 22p (figs refs omitted)  
Order from SLA \$2.60                      63-20143

I. Geffcken, W.  
II. Berger, E.

Trans. of Glastechn[ische] Ber[ichte] (Germany) 1938,  
v. 16 [no. 9] p. 296-304.

DESCRIPTORS: \*Glass, Surfaces, Liquids, Reaction  
kinetics, Quantitative analysis, \*Corrosion, Solvent  
extraction, Adsorption, Interferometers.

(Materials--Ceramics, TT, v. 10, no. 11)

Office of Technical Services



63-20142

Neumann, C. and Dietzel, A.  
THE PIGMENT BODIES IN THE SO-CALLED CARBON-  
YELLOW GLASSES. I. ON COLORING GLASS BY  
MEANS OF COLLOIDAL CARBON. [Presented] at the  
Glass Technical Meeting (no. 21) Berlin, 15-17 Feb 38.  
[1963] [7p] 19refs

I. Neumann, C.  
II. Dietzel, A.  
III. Title: Coloring...  
IV. Title: Glass...

Order from SLA \$1.10                      63-20142

Trans. of Glastechnische Berichte (Germany) 1938,  
v. 16 [no. 12] p. 389-391.

DESCRIPTORS: \*Glass, \*Pigments, Carbon, Colloids,  
\*Colors, \*Sulfides, Chemical analysis.

(Materials--Ceramics, TT, v. 10, no. 11)

Office of Technical Services

63-20146

Neumann, C. and Dietzel, A.  
THE PIGMENT BODIES IN THE SO-CALLED CARBON-  
YELLOW GLASSES. II. THE COLORING BY POLY-  
SULFIDES OF GLASSES FREE OF HEAVY METALS.  
[Presented at the Glass Technical Meeting (no. 21)  
Berlin, 15-17 Feb 38. [1963] [15p] (figs omitted) 8refs  
Order from SLA \$1. 60 63-20146

I. Neumann, C.  
II. Dietzel, A.  
III. Title: Coloring...  
IV. Title: Glass...

Trans. of Glastechnische Berichte (Germany) 1939,  
v. 17 [no. 10] p. 286-290.

DESCRIPTORS: \*Glass, \*Pigments, \*Sulfides, Carbon,  
\*Colors, Iron compounds, Sodium compounds, Sulfates,  
Chemical analysis.

(See also 63-20142)

(Materials--Ceramics, TT, v. 10, no. 11)

Office of Technical Services



Csaki, Paul and Dietzel, Adolf.  
ELECTROCHEMICAL MEASUREMENT OF THE  
OXYGEN PARTIAL PRESSURE IN GLASS MELTS:  
INVESTIGATIONS OF OXIDATION EQUILIBRIA.  
[1961] [62] p. 21 refs. 61-14471  
Order from SLA mi\$3.90, ph\$10.80

Trans. of Glastechnische Berichte (Germany) 1940,  
v. 18, no. 2, p. 33-45 and no. 3, p. 65-69.

- 01-14471
1. Electrochemistry
  2. Oxygen--Chemical reactions
  3. Glass--Melting
  4. Glass--Oxidation
- I. Csaki, P.
  - II. Dietzel, A.
  - III. Title: Investigations...

154031

Office of Technical Services

(Unannounced)

TT-64-14084

Neumann, C. and Dietzel, A.  
[THE PIGMENT BODIES] IN THE SO-CALLED COAL-  
YELLOW GLASSES. III. COLORATIONS THROUGH  
IRON-SULPHUR COMPOUNDS (Die Farbkörper in den  
Sogenannten Kohlegelben Gläsern. Teil III. Färbungen  
Durch Eisen-Schwefel-Verbindungen). [1963] [24p]  
(foreign text included) 19refs  
Order from SLA \$2.60                      TT-64-14084

- I. Neumann, C.
- II. Dietzel, A.
- III. Title: Colorations ...

Trans. of Glastechnische Berichte (Germany) 1940,  
v. 18, no. 10, p. 267-273.

(See also TT-63-20146)

(Materials--Ceramics, TT, v. 12, no. 2)

Office of Technical Services

Elastic After-Effect by Heat Diffusion and  
Material Diffusion with the Periodic and Aperi-  
odic Process, by H. Rotger.

GERMAN, per, Glastech Ber, Vol XIX, No 6, Jun  
1951, pp 192-200.

ASLIB-GB105

Sci  
Aug 58

70,796

TT-64-14035

Dietzel, A. and Boncke, R.  
EFFECT OF TITANIUM DIOXIDE ON THE COLORING  
OF GLASS AND ITS STRUCTURE-THEORETICAL  
INTERPRETATION (Wirkung von Titandioxyd auf die  
Farbung von Gläsern und deren Strukturtheoretische  
Deutung). [1963] [31p] (foreign text included) 14refs  
Order from SLA \$3.60      TT-64-14035

I. Dietzel, A.  
II. Boncke, R.

Trans. of Glantechnische Berichte (Germany) 1941,  
v. 19, no. 7, p. 217-225.

(Materials--Ceramics, TT, v. 11, no. 12)

Office of Technical Services

62-14882

I. Thomas, M.

Thomas, M.  
THE SCHLIEREN (STREAK) FORMATION IN  
GLASSES CAUSED BY REFRACTORIES (Über die  
Schlierenbildung in Gläsern durch Feuerfeste Massen).  
[1962] [17]p. (foreign text included) 2 refs.  
Order from SLA \$1.60      62-14882

Trans. of Glastechnische Berichte (West Germany)  
1942, v. 20, no. 9, p. 258-262.

DESCRIPTORS: \*Glass, \*Refractory materials, Clays,  
\*Schlieren photography, Refractive index.

Tests are reported on refractories, especially on  
burnt clays with respect to the schlieren (streak) for-  
mation they cause in the molten glass they are in con-  
tact with, which tests have found satisfactory appli-  
cation in the selection of refractories for vat bricks  
and glass house pots in planned constructions. (Author)  
(Materials--Ceramics, TT, v. 8, no. 4)

Office of Technical Services



61-10181

Freytag, Hans.  
STUDY OF THE GLASS FILAMENT SURFACE; SIZE  
OR LUBRICANT SYSTEM, 1. Pt. 3 of Glass Filament  
Investigations. [1960] 62p. (18 figs. omitted) 42 refs.  
Order from SLA ml\$3.90, ph\$10.80      61-10181

1. Glass textiles--Micro-structure
  2. Glass textiles--Surfaces
- I. Freytag, H.
  - II. Title: Glass...

Trans. of Glastechnische Berichte (Germany) 1943,  
v. 21, no. 7/8, p. 149-170.

142,898

Office of Technical Services

(Materials--Ceramics, TT, v. 5, no. 3)

61-10180

Koch, Paul-August, Freytag, Hans, and Ardenne,  
Manfred v.  
ELECTRON-MICROSCOPIC TESTS (PRELIMINARY  
REPORT). Pt. 4 of Glass Filament Investigations. (1960)  
15p. (9 figs. omitted) 39 refs.  
Order from SLA ml\$2.40, ph\$3.30      61-10180

Trans. of Glastechnische Berichte (Germany) 1943,  
v. 21, no. 12, p. 249-255.

See also 61-10181.

*142,899*

- I. Glass textiles--Micro-structure
- I. Koch, P.-A.
- II. Freytag, H.
- III. Ardenne, M. v.
- IV. Title: Glass...

Office of Technical Services

(Materials--Ceramics, TT, v. 5, no. 3)

<p>Koch, Paul-August. ON THE RELATION BETWEEN FINENESS AND STRENGTH IN GLASS FILAMENTS. Pt. 7 of Glass Filament Investigations. [1960] 22p. (11 figs. omitted) 23 refs. Order from SLA ml\$2.70, ph\$4.80      61-10184</p>	<p>61-10184 I. Glass textiles-- Mechanical properties 1. Koch, P.-A. II. Title: Glass...</p>
<p>Trans. of Glasstechnische Berichte (West Germany) 1949, v. 22, no. 9/10, p. 161-169.</p>	<p>142,986</p>
<p>See also 61-10180.</p>	<p>Office of Technical Services</p>
<p>(Materials--Ceramics, TT, v. 5, no. 3)</p>	

62-18135

Ruess, Gerhard  
RAMAN-SPECTRUM AND GLASS STRUCTURE (Raman-  
Spektrum und Glasstruktur). [1962] [15]p. 19 refs.  
Order from SLA \$1.60                      62-18135

I. Ruess, G.

Trans. of Glastechnische Berichte (West Germany) 1949,  
v. 22, no. 9/10, p. 175-177.

DESCRIPTORS: \*Glass, Structural properties, Analysis,  
\*Raman spectroscopy.

(Materials--Ceramics, TT, v. 9, no. 4)

Office of Technical Services

62-18136

Smekal, Adolf.  
INFRARED AND RAMAN SPECTRA OF OXIDE  
GLASSES. [A comment on] Raman-Spectrum and Glass  
Structure, by Gerhard Ruess. [1962] Sp. 12 refs.  
Order from SLA \$1.10                      62-18136

- I. Smekal, A.
- II. Ruess, G.
- III. Title: Raman-Spectrum ...

Trans. of Glastechnische Berichte (West Germany) 1949  
[v. 22] no. 9/10, p. 177-179 (original article pub. on  
p. 173-177).

DESCRIPTORS: \*Glass, Oxides, Structural properties,  
Analysis, \*Raman spectroscopy, \*Infrared spectroscopy.

(See also 62-18135)

(Materials--Ceramics, TT, v. 9, no. 4)

Office of Technical Services

<p>Koch, Paul-August. TEXTILE GLASS FILAMENTS, FIBROUS SUBSTANCE TABLES. [1960] 8p. 2R refs. Order from SI.A ml\$1.80, ph\$1.80      61-10186</p> <p>Trans. of <u>Glastechn[ische] Ber[ichte]</u> (West Germany) 1949, v. 22, no. 11, p. 226-228.      <i>144, 953</i></p> <p>(Materials--Ceramics, TT, v. 5, no. 3)</p>	<p>61-10186</p> <p>I. Glass textiles--Properties I. Koch, P.-A. II. Title: Fibrous...</p> <p>Office of Technical Services</p>
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<p>Bobeth, Wolfgang. ELASTICITY INVESTIGATIONS ON GLASS FILA- MENTS. Pt. 8 of Glass Filament Investigations. [1950] 11p. (3 figs. omitted) 8 refs. Order from S LA ml\$2.40, ph\$3.30      61-10183</p>	<p>61-10183 1. Glass textiles-- Elasticity I. Bobeth, W. II. Title: Glass...</p>
<p>Trans. of Glasstechn[ische] Ber[ichte] (West Germany) 1949, v. 22, no. 18, p. 420-423.</p>	<p>142,987</p>
<p>See also 61-10184.</p>	<p>Office of Technical Services</p>
<p>(Materials--Ceramics, TT, v. 5, no. 3)</p>	

Results of Cinematographic Investigation  
of the Glass Fracture Process, by Robert  
Ehacrdin, 26 pp.

GERMAN, per, Glastechnische Berichte,  
Vol XLIII, No 1, 1950, pp 1-10.

SLA 60-16849

Sci  
Vol IV, No 7  
May 62

193,694



Results of the Cinematographic Examination of the  
Breakage Process of Glass, 2. by H. Schardin,

GERMAN, par, Glastechnische Berichte, Vol XXIII,  
pp 67-79. 1950

*SLA 62-16468*  
C.S.I.R.O.

Sci

May 60

*116,099*

Heat Problems in the Design of Glass-Working  
Molds, by W. Giegerich, 29 pp.

GERMAN, per, Glastechnische Berichte, Vol XXIII,  
Jun 1950, pp 161-169.

SLA 60-18795

Sci

*146,121*

Apr 61

Metallic Materials for Glass Manufacture and  
Studies on Mould Castings, by F. Oberlies,  
A. Dietzel, 13 pp.

GERMAN, per, Glastech Berichte, Vol XXIV, 1951,  
pp 790102.

SIA Tr 57-730

Sci - Engr

53,182

Sep 57

Aluminum Orthophosphate Glasses, by  
Franz Drexler, Wolfram Schutz, 11 pp.

GERMAN, per, Glastech Ber, Vol XXIV, 1951,  
pp 172-176.

CIA/FID XX-246  
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chemistry  
Feb 1957 ERS/dex  
IAC INTERNAL USE ONLY

44, 189

Preparation of the Frit Before the Fusion,  
by Wilhelm Geigerich, 31 pp.

GEFFMAN, per, Glastechnische Berichte,  
Vol XXIV, No 12, 1951, pp 293-2301.

SLA 60-15859

Sci  
Vol IV, No 7  
May 62

193, 699

Optical Effects of Plate Glass With Uneven Surfaces, by Frank Karkhof, 43 pp.

GERMAN, per, Glastechnische Berichte,  
VOLUME XXV, No 3, 1952, pp 71-83.

SLA 60-16922

Sci

*196,881*

May 62

<p>Koch, Paul-August and Satlow, Günther. TESTS FOR THE EVALUATION OF FLEXIBILITY AND BRITTLINESS, RESPECTIVELY: LOOP CAPAC- ITY TESTS OF GLASS FILAMENTS [AND] BRITTLI- NESS TEST OF GLASS FILAMENTS BY TORSION FAILURE. Pts. 10-11 of Glass Filament Investigations [1960] 21p. (3 figs. omitted) 18 refs. Order from SLA ml\$2.70, ph\$4.80      61-10185</p>	<p>61-10185</p>
<p>Trans. of <u>Glastechnische Berichte</u> (West Germany) 1952, v. 25, no. 4, p. 101-106.</p>	<p>1. Glass textiles--Test     methods 2. Glass textiles--     Mechanical properties I. Koch, P.-A. II. Satlow, G... III. Title: Loop... IV. Title: Brittleness... V. Title: Glass...</p>
<p>See also 61-10183</p>	<p><i>142,954</i></p>
<p>(Materials--Ceramics, TT. v. 5, no. 3)</p>	<p>Office of Technical Services</p>

Depth Penetration of Diffuse Radiation Into  
Glass, 19 pp., by Mariann Czerny, Ludwig Genzel.

GERMAN, per, Glastech Ber, Vol XXV, 1952,  
pp 134-139.

34,074

CIA/FDD/XX-133  
NOT RELEASABLE TO  
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Scientific - Physics      May 56 CTS/MSX

IAC INTERNAL USE ONLY



<p>Sigwart, Hans. CONCERNING THE TESTING OF INTERNAL PRES- SURE OF GLASS BOTTLES (Zur Innendruckprüfung von Glasflaschen). [1962] [39]p. (foreign text included) 9 refs. Order from SLA \$3.60</p>	<p>62-14887</p>
<p>Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1952, v. 25, no. 9, p. 276-285.</p>	<p>I. Sigwart, H.</p>
<p>DESCRIPTORS: *Glass, Containers, Test equipment, *Pressure vessels, Materials, Statistical analysis.</p>	
<p>The purpose of the examinations was the preparation of a norm in this field by comparing the testing processes used until now, and developing a testing device with test conditions which could be defined as exactly as possible. (Author)</p>	
<p>(Materials, TT, v. 8, no. 4)</p>	<p>Office of Technical Services</p>

Frit Reactions and Glass Melts, by Carl  
Kroger, 36 pp.

GERMAN, per, Glastechnische Berichte, Vol XXV,  
No 10, 1952, pp 307-324.

Sci

Apr 61

SLA 60-18770  
SLA 60-18771  
SLA 63-12596

146, 123

Geffcken, Walter.  
PROPAGATION OF HEAT IN GLASS AT HIGH  
TEMPERATURES, PT. 1 (Zur Fortleitung der Wärme  
in Glas bei Hohen Temperaturen. 1. Teil). [1962]  
[14]p. (foreign text included) 5 refs.  
Order from SLA \$1.60 62-16131

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1952, v. 25, no. 12, p. 392-396.

DESCRIPTORS: \*Glass, Propagation, Heat, Thermal  
radiation, Blackbody radiation, Thermal diffusion,  
Energy, Iron, \*Heat transfer.

The equations for the state of stationary thermal  
radiation are derived for a transparent body, infinitely  
extended three-dimensionally and having a temperature  
gradient in one dimension. At sufficiently low heat  
(Materials--Ceramics, TT, v. 8, no. 7) (over)

62-16131

I. Geffcken, W.

Office of Technical Services

Trier, Wolfgang.  
TEMPERATURE MEASUREMENTS IN THE GLASS  
BATH OF TANK FURNACES (Temperaturmessun-  
gen im Glasbad von Wannenöfen). [1962] [29]p.  
(foreign text included) 8 refs.  
Order from SLA \$2.60

62-16397

Trans. of Glastechnische Berichte (West Germany)  
1953, v. 26, no. 1, p. 5-12.

DESCRIPTORS: \*Glass, Melting, Temperature,  
Measurement, Test equipment, Gas flow, Convection,  
Pyrometers, Sheets, Tests.

A survey is given of the most important temperature  
measurements that have been made so far in the glass  
bath of tank furnaces. After discussing the testing ap-  
paratus, the results of the measurements are criti-  
cally examined. It is tried to interpret some of the  
(Materials--Ceramics, TT, v. 8, no. 9) (over)

62-16397

1. Title: Tank furnaces  
1. Trier, W.

Office of Technical Services

Calculation of the Radiation Conductivity of  
Glasses, by L. Genzel. 9 pp.

GERMAN, per, Glastechnische Berichte,  
Vol XXVI, No 3, 1953, pp 69-71. 9667436  
1953

CSIRO

NAVY Tr 3289/NRL 919

Sci - Phys  
Jul 62

207-444

<p>Günther, Rudolf. SIGNIFICANCE OF THE HEAT BALANCE OF TANK FURNACES (Bedeutung der Wärmebilanz von Wan- nenöfen). [1963] [22]p. (foreign text included) 2 refs. Order from SLA \$2.60 63-14059</p> <p>Trans. of <u>Glastechn[ische] Berichte</u> (West Germany) 1954, v. 27, no. 2, p. <del>41-46</del>.</p> <p>DESCRIPTORS: *Furnaces, Heat, *Thermodynamics, *Glass.</p> <p>(Materials--Ceramics, TT, v. 10, no. 5)</p>	<p>63-14059</p> <p>I. Günther, R.</p> <p>Office of Technical Services</p>
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Calculation of Temperature Distribution in Glass  
Melts With Heat Conduction and Heat Radiation,  
by Alwin Walther, Johannes Dorr, Edelgard Eller,  
25 pp.

GERMAN, per, Glastechn Ber, Vol XLVII, 1953,  
pp 133-140.

CIA/FID/XX-134  
NOT RELEASABLE TO  
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Scientific - Physics  
Mathematics  
IAC INTERNAL USE ONLY

34075  
May 56 CTS/DEX

Mickley, Erich and Thomas, Max.  
ON THE MECHANICAL PRODUCTION OF THIN-  
WALLED HOLLOW GLASS OBJECTS FROM TUBING  
(Über die Maschinelle Herstellung Dünnwandiger  
Hohlglaskörper aus Rohr). Lecture at the Glass-  
Technical [Meeting] (no. 27) Freiburg, 13 May 53.  
[1963] [17p] (foreign text included).  
Order from SLA \$1.60

63-18580

Trans. of Glastechnische Berichte (West Germany)  
1953, v. 26, no. 7, p. 197-201.

DESCRIPTORS: \*Glass, Liquids, Pipes, \*Incandescent  
lamps, Lighting equipment, Geometric forms,  
Machines, Walls, Production.

Some procedures, several of them new, are described,  
by which thin-walled, small hollow glass objects,  
preferably incandescent bulbs, are made mechanically  
from tubing. (Author)  
(Materials--Ceramics, TT, v. 10, no. 11)

63-18580

I. Mickley, E.  
II. Thomas, M.

Office of Technical Services



Vacuum Tight Glass-to-Metal Seals For Electrical  
Engineering, by Werner Dusing, 19 pp.

GERMAN, per, Glastechnische Berichte, Vol XXVI,  
No 8, 1953, pp 232-238.

SLA 60-14033

Sci

OCS, Vol III, No 7

133,100

Nov 60

Polishing Materials for Glass, by Gerhard Kröner,  
9 p.

GERMAN, per, Glastechn Ber., 1953, Vol XXVI,  
No 10, pp 300-306.

SLA 60-10003

Sci  
Apr 60  
Vol III, No 3

112,002

62-14498

Trier, Wolfgang.  
TEMPERATURE AND STRAIN CONDITIONS IN  
CRACKING OF GLASS (Temperatur- und Spannungs-  
verhältnisse beim Absprengen von Glas). [1962]  
[10]p. (foreign text included).  
Order from SLA \$1.10

62-14493

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1954, v. 27, no. 5, p. 164-166.

DESCRIPTORS: \*Glass, \*Fracture(Mechanics), Tem-  
perature, Cooling.

The nature of the cracking process is explained by  
simple physical considerations. The observation from  
practice, that the cracking process is made more dif-  
ficult with thin wall thicknesses, with poorly cooled  
glasses and with small tubes, finds its deeper reason  
thereby. (Author)

(Materials--Ceramics, TT, v. 8, no. 5)

I. Trier, W.

Office of Technical Services

The Surface of the Mold Wall and Its  
influence on the Flow of the Glass,  
by W. Giegerich, 31 p.  
GERMAN, per, Glastechnische Berichte,  
Vol 26, No 11, 1953, pp 333-341.  
SLA TT-66-10699

Sci-M&M  
Jul 66

306,019

On Temperature Dependence of Internal Damping,  
Sound Velocity & Modulus of Elasticity, by A.  
Dietzel.

GERMAN, per, Glat Ber, Vol XXVII, 1954, pp 105-116.

Language Sv Bu  
SLA 60-16252

Sci - Chem

Oct 60

129,648

Some Observations Regarding the Behavior of  
Quartz Sand and Powdered Quartz in Glass Melts,  
by A. Dietzel, H. Hickert.

GERMAN, per, Glastech Ber, Vol XXVII, 1954,  
pp 170-172.

ASLIB-GB105

Sci  
Aug 58

70,791

Correction Procedures for the Flame Photometric  
Sodium Determination ~~of~~ in the Presence of  
Calcium, by Friedrich Hegemann, Barbara Pfab,  
9 pp.

GERMAN, per, Glastechnische Berichte, Vol XXVII,  
No 6, 1954, pp 189-192. 9688755

DDC RSIC-72

Sci - Chem  
Nov 63

241,676

Brüche, Ernst and Schimmel, Gerhard.  
ABOUT THE SCRATCHING OF GLASS BELOW ONE  
MICRON SCRATCH TRACT WIDTH (Über das Ritzen  
von Glas unter 1  $\mu$  Ritzspurbreite). [1961] [31 p.  
(foreign text included) 29 refs.  
Order from SLA \$3.60

61-20840

Trans. of Glastechnische Berichte (West Germany)  
1954, v. 27, no. 7, Sonderdruck, p. 239-247.

DESCRIPTORS: \*Glass, Diamonds, Electron micro-  
scopes, Plasticity, Temperature, Fracture  
(Mechanics), Elasticity, Deformation, Cutting tools

(Materials--Ceramics, TT, v. 7, no. 5)

61-20840

I. Brüche, E.  
II. Schimmel, G.

Office of Technical Services



62-14883

Ramsauer, Rembert.  
APPLICATION OF THE SCHLIEREN MICROSCOPE  
FOR THE INVESTIGATION OF LAYER STRUC-  
TURES IN PLATE GLASS (Anwendung des  
Schlierenmikroskopes zur Untersuchung der Schicht-  
ung von Tafelglas). Paper read at the Glass Techno-  
logical Convention (no. 28) Hamburg, 20 May 54. [1962]  
[31]p. (foreign text included) 8 refs.  
Order from SLA \$3.60                      62-14883

I. Ramsauer, R.  
II. Title: Glass...

Trans. of Glastechnische Berichte (West Germany)  
1954, v. 27, no. 10, p. 374-381.

DESCRIPTORS: \*Glass, Microstructure, Micro-  
analysis, Microscopy, \*Schlieren photography, Re-  
fractive index, Optics.

(Materials--Ceramics, TT, v. 8, no. 5)

Office of Technical Services

Analysis of Schlioren and Layers by Etching  
and Interference Measurements, by J. Loffler.

GERMAN, per, Glastechnische Berichte,  
Vol XXVII, 1954, pp 381-392.

CSIRO

SWA 62-14781

211, 323

Sci - Phys  
Aug 62

The Behavior of Glass - Flow and Relaxation,  
by Paul G. Migeotte, Henri P. C. Vandescapelle,  
18 pp.

GERMAN, per, Glastechnische Berichte, Vol XXVII,  
No 11, 1954, pp 405-409.

SLA 60-16845

Sci  
Vol IV, No 7  
May 1952

193, 701

Concerning the Silicate DeComposition  
According to W. Pukall, by W. Geilmann,  
A. Maenssle.  
GERMAN, per, Glastechnische Berichte,  
Vol 28, No 1, 1955, pp. 16-8.  
NTC 69-11731-11B

Sci-Chem  
July 69

386,672

A Simple Experiment for Producing  
Fracture Lines by Mechanical Impulses,  
by F. Kerkhof.  
GERMAN, per, Glastechnische Berichte,  
Vol 28, No 2, 1955, pp. 57-8  
NTC 69-11732-11B

Sci-Mat  
July 69

386,673

Contribution to the Knowledge of Old  
Glasses. Part III. The Chemical Compos-  
ition of Some Ancient Glasses. Especially  
of German Glasses of the 10th to the 18th  
Centuries, by W. Geilmann.  
GERMAN, per, Glastechnische Berichte,  
Vol 28, No 4, 1955, pp. 146-56.  
NTC 69-11733-11B

Sci-Mat  
July 69

386,674

On the Radiation ~~Flow~~ on the Interior of Glass  
Tanks, by Marianus Czerny, Ludwig Genzel,  
Gerhard Heilmann, 21 pp.

GERMAN, per, Glastech Berichte, Vol XXVIII,  
No 5, 1955, pp 185-190.

SLA 60-18513

Sci

203,545

Jul 62  
Vol 4, No 12

Internal Pressure Testing of Glass  
Bottles, by L. H. Lehnert.

GERMAN, per, Glastechnische Berichte,  
Vol XXVIII, No 7, 1955, pp 259-262.

'CSIRO

Sci - Engr  
Dec 61

175, 754



Investigations into the Causes of Breakdown of  
Regenerator Chequer Refractories in Glass  
Furnaces, by E. Steinhoff, 6 pp.

GERMAN, per, Glastechnische Berichte,  
Vol XXVIII, No 7, 1955, pp 266-272.

CSIRO

Sci - Phys  
Nov 61

*pp 265-272*      *OTS 62-18269*  
*(63-14034)*

*174,382*