

Development and Final Version of the Dignin
Determination Method According to Jayne-Knolle,
by Georg Jayne, Herbert Knolle, Gerda Rapp,
8 pp.

GERMANY, per, das Papier, Vol XII, No 17/18, 1958,
pp 464-467.

SLA 59-15362

Sci
Dec 59
Vol 2, No 4

103,116

Sorting of Paper According to Modern Points of
View, by H. Thier, 9 pp.

GERMAN, par, Das Papier, Vol XII, No 19/20, 1958,
pp 505-512.

SIA 59-15692

Sci
Nov 59
Vol 2, No 3

106,521

Loosening of Fibre to Fibre Bonding in Wood
Through Pulping, by Hans Sadler, Othear Franbina,
20 pp.

GERMAN, per, das Papier, Vol XII, No 21/22, 1958,
pp 553-567.

SLA 59-15976

Sci
Jan 60
Vol 2, No 7

104,684

<p>Judt, M[anfred] FIBRE ALIGNMENT IN PAPER. Aug 60, 22p. (9 figs. omitted) 29 refs. Order from SLA m \$2.70, ph\$4.80 60-18923</p> <p>Trans. of das Papier (West Germany) 1958, v. 12, no. 21/22, p. 568-578.</p> <p>Experiments are reported which indicate that any strict relationship between fibre and strength distribution with variable hydraulic conditions in the breast box and during sheet formation is unlikely.</p> <p>(Materials--Paper, TT, v. 5, no. 2)</p>	<p>60-18923</p> <p>1. Paper--Test methods 2. Fibers--Test methods 1. Judt, M.</p> <p>142,796</p> <p>Office of Technical Services</p>
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Water and Waste Water Systems of Illustration
Printing Paper Mills, by Walter Brecht, Fridolin
Zippel, 11 pp.

GERMAN, par, Das Papier, Vol XII, No 23/24, 1958,
pp 615-623.

SLA 60-10916

119,112

Sci
Jun 60
Vol XII, No 5

Effect on the Shake of Paper Machines on Sheet
Formation and Fibre Orientation, by H. GUST.
GERMAN, per, Das Papier, Vol. 13, No. 3/4, 1958,
pp 46-51

Sci -
July 1967

304-614

The Behaviour of Papers When Their Moisture Content
Changes. Pt 1., by Walter Brecht, 9 pp.

GERMAN, per Gas Papier, Vol XIII, No 1/3, 1959,
pp 130-137.

SLA 59-10913

Sci
Dec 59
Vol 2. 114

103, 114

61-18266

Jayme, G. and Reimann, K.
THE DETERMINATION OF ROSIN IN THE CIRCULATING AND WASTE WATERS OF A PAPER MACHINE. Apr 61, 20p. (5 figs. omitted) 22 refs.
Order from SLA \$1.60 61-18266

I. Title: Rosin
I. Jayme, G.
II. Reimann, K.

Trans. of das Papier (West Germany) 1959, v. 13,
no. 9/10, p. 190-200.

DESCRIPTORS: Organic materials, Inorganic substances, Water, Chemical analysis, *Paper industry, Precipitation, Separation, Production, Cellulose chemistry, *Resins, Determination, Wood pulp machines.

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

Office of Technical Services

The Behaviour of Papers When Their Moisture
Content Changes, Pt II, by Walter Bruché, *et al.*

CHIMIA, par, Ges. Papier, 1959, Vol XLIV,
No 9/10, pp 201-207.

SLA 59-27046

Set
Dec 59
Vol 2, No 6

103,765

Tendency of Paper to Curling, by Walter Brecht,
Paul Rederer, Wolfgang Weitzel, 10 p.

GERMAN, par, das Papier, 1959, Vol XIII, No 11/12,
pp 237-244.

SIA 60-10128

Sci.
Apr 60
Vol. XII, No 3

112,025

The Rheological Behaviour of Paper of Varying
Moisture Content When Subjected to Short Tensile
Strain, by W. Brecht, E. Fuhrbeck, 7 pp.

GERMAN, per, das Papier, Vol XIII, No 13/14,
1959, pp 293-301.

SLA 60-14010

Sci
OTS, Vol III, No 7
Nov 60

68/15

133,054

Beating of Hardwood Pulps for the Production of Various
Types of Paper, by F. Wultsch, 10 pp.

GERMAN, per, Das Papier, Vol XIII, No 17/18, 1959,
pp 407-413.

SIA 60-14284

Sci

169,952

Oct 61

Vol III, No 9

<p>Mack, H[einz]. A STUDY ON THE DISTRIBUTION AND RETENTION OF FILLERS IN PAPER. [1960] 13p. (16 figs. omitted) 20 refs. Order from SLA ml\$2.40, ph\$3.30 61-10392</p> <p>Trans. of das Papier (West Germany) 1959, v. 13, no. 19/20, p. 459-469.</p> <p>147,043</p> <p>(Materials--Paper, TT, v. 5, no. 3)</p>	<p>61-10392</p> <p>1. Paper--Analysis I. Mack, H.</p> <p>Office of Technical Services</p>
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Cadoxen, A New, Colorless, Aqueous Solvent for
Cellulose and Its Application, by Georg Jayme.

19 pp.

GERMAN, per, Das Papier, Vol XII, No 23, 1958,
pp 624-632.

SLA 60-1627.

Sci

188,064

Vol 4, No 1

Mar 62

The Characterization of the Behaviour of Cellulose
by Means of Crystal Violet Base, by Marius Kobek,
Reinrich Beck, 6 pp.

GERMAN, per, Das Papier, Vol XIII, No 1/2, 1959,
pp 1-5.

SLA 59-10986

Sci
Dec 59
Vol 2, No 4

103,101

^P
Optical Brighteners in the Paper Industry and
Their Evaluation by Colorimetric Measurements, by
Anni Bergner, Hans Unterbirkner, 9 p.

GERMAN, per, das Papier, 1959, Vol XIII, No 1/2,
pp 5-12.

SLA 59-17062

S&I
Dec 59
Vol 2, No 6

103,963

Model Tests Concerning the Application of Steam
and CMC in Sizing Presses, by O. Arneberg.

GERMAN, per, Papier, Vol XII, No 5/6, 1958,
pp 61-86.

CSIRO

Sci. - Chem

Jun 61

156,926

<p>Bacs, Sandor. SANITARY TISSUES. Oct 60, 4p. Order from SLA ml\$1.80, ph\$1.80 61-10308</p> <p>Trans. of Pastrisax (Hungary) 1959, v. 3, no. 4, p. 146-148.</p> <p>(Materials--Paper, TT, v. 5, no. 12)</p>	<p>61-10308</p> <p>1. Paper--Production 2. Title: Sanitary tissues 1. Bacs, S.</p> <p>148554</p> <p>Office of Technical Services</p>
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Importance of Smoothness, by Ernst Papler, 3 p.
GERMANY, pub, das Papier, 1959, Vol XIII, No 5/6.
pp 85-92.

SLA 59-17088

Sci
Dec 59
Vol. 2, No 6

103,964

The Influence of wire ^hStake on the Technological
Properties of Paper, by M. Judt, 16 pp.

GERMAN, per, Das Papier, Vol XIII, No 19/20,
1959, pp 403-406.

SIA 60-10271

Sci

Vol 4, No 1

Mar 62

188,065

Novel Method of Measurement of Smoothness and
Uniformity of smoothness on Papers and Boards, by
Walter Brecht, Hermann Geenan, 14 pp.

GERMAN, per, Das Papier, Vol XIII, No 21/22, 1959,
pp 529-530.

AL
SLA 60-10922

119,111

Sci
Jun 60
Vol XIII, No 5

Changes in Colloid-Chemical Properties of Cellulose
Fibres Produced by High Frequency Treatment, by
G. Jayme

GERMAN, per, Papier, No 23/24, 1959, pp 578-583.

GB/15

Sci
Dec 62

Brecht, V. and Erfurt, H.
NEW DATA ON THE TENSILE STRENGTH OF
PAPERS. [Sep 60] 13p. (14 figs. 2 graphs omitted)
19 refs. 61-10207
Order from SLA m\$2.40, ph\$3.30

Trans. of das Papier (West Germany) 1959, v. 13,
no. 23/24, p. 583-592.

A new apparatus is described which enables the stress-strain properties of paper to be determined within the total range of solid contents of 13% to 90%. The device functions with a constant rate of extension which can be varied over wide limits. The flow behaviour of initially wet papers was studied, and an investigation was made of the influences exercised by fibre swelling, beating, and the changes in the composition of the structural elements occurring during beating on the relationship between solids content and tensile strength. The results supplied a comprehensive picture of the laws and other factors affecting the (Materials--Paper, TT, v. 5, no. 2) (over)

61-10207

- I. Paper--Tensile properties
- I. Brecht, W.
- II. Erfurt, H.

141,137

Office of Technical Services

Changes in Colloidal-Chemical Properties of Cellulose
Fibers Produced by High Frequency Treatment, by
George Jayme, Horst Cronert, ~~Walter Neuhaus~~ Walter Neuhaus,
EXXX 6 pp.

GERMAN, per, das Papier, Vol XIII,
No 23/24, 1959, pp 578-583.

SLA 61-10769

Sci
Aug 61

162,795

Testing Various Grades of Paper with the FOGRA
Printability Testes, by F. Tultsch,
K. Schubert.

XXGERMAN, per, Papier, Vol XIII, No 23-24,
1959, pp 600-607.

GB-205

Sci
Dec 62

Investigations Concerning the Growth of
Fusarium Aqueductum Lach on the Waste Waters
of the Sulphite Pulp Industry, by L. Scheuring,
et al, 6 pp.

GERMAN, per, Das Papier, Vol XIV, No 1,
1960, pp 1-3.

SLA 60-16637

Sci
Vol IV, No 7
Apr 62

192, 634

61-10740

Jayme (George, Crbnert, Horst, and Neuhaus, Walter).
CHANGES IN COLLOID-CHEMICAL PROPERTIES OF
CELLULOSE FIBRES PRODUCED BY HIGH FRE-
QUENCY TREATMENT. II. Jan 61, 5p: (18 figs
6 tables omitted) 1 ref.
Order from SLA mi\$1.80. ph\$1.80 61-10740

Trans. of das Papier (West Germany) 1960, v. 14,
no. 1, p. 3-11
Another translation is available from SLA mi\$1.80,
ph\$1.80 as 60-18504 [1960] [10]p.

The machinery used in high-frequency treatment is
described. (See also 60-18503)

(Materials--We. G., TT, v. 5, no. 10)

1. Wood pulp fibers--Physical properties
 2. Ultrasonic radiation--Physical effects
 3. Stirrers--Design
- I. Jayme, G.
 - II. Crbnert, H.
 - III. Neuhaus, W.

154610

Office of Technical Services

61-10742

Jayme, George, Cronert, Horst, and Neuhaus, Walter].
CHANGES IN COLLOID-CHEMICAL PROPERTIES OF
CELLULOSE FIBRES PRODUCED BY HIGH FREQUENCY TREATMENT. III. Jan 61 [10]p. (7 figures, 9 tables omitted) 20 refs. 61-10742
Order from SLA ml\$1.80, ph\$1.80

Trans. of das Papier (West Germany) 1960, v. 14, no. 2, p. 58-66.

A discussion is presented of the influence of ultrasound and mechanical high-frequency treatment on the morphologically determined reactivity of rayon pulps. (See also 61-10740)

- 1. Wood pulp fibers--Physical properties
- 2. Ultrasonic radiation--Physical effects
- 3. Stirrers--Design
 - I. Jayme, G.
 - II. Cronert, H.
 - III. Neuhaus, W.

151730

Office of Technical Services

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

Progress in Swedish Sulphite Pulp Research,
by L. Stockman, 8 pp.

GERMAN, per, Das Papier, Vol XIV, No 3,
1960, pp 85-91.

SLA 60-13099

Sci
Vol IV, No 9
Mar 62

187, 129

New Resin and Lignin Reaction for the Identifi-
cation of Pulps, by E. Kuhlmal, 6 pp.

GERMAN, per, das Papier, Vol XIV, No 3, 1960,
pp 96-99.

SLA 61-20667

Sci
Mar 62
Vol VII, No 3

188,082

Bachter, Norbert.
 THE GAS PERMEABILITY OF CELLOPHANE AND
 CELLOPHANE COMBINATION FILMS AT DIFFER-
 ENT RELATIVE HUMIDITIES (Gasdurchlässigkeit
 von Zellophan und Zellophankombinationenstoffen).
 Zf. Angew. [20]p. 12 refs.
 Order from SLA \$2.60 61-16723

Trans. of Inst. Ingler (West Germany) 1960, v. 14
 [no. 4] p. 123-130.
 Another translation is available from SLA ml\$2.40,
 ph\$3.30 as 60-18083 [1960] 17p.

DESCRIPTORS: *Plastic films, *Ethylones, *Gases,
 Humidity.

The permeability of unlacquered cellophane; cello-
 phane lacquered with nitro cellulose and combination
 films of cellophane/polyethylene was measured for
 different gases within relative humidity range of
 (Materials--Plastics, TT, v. 6, no. 7) (over)

61-16723

I. Buchner, N.

OTD
60-18083

181713

Office of Technical Services

phenomena in Swelling and Dissolution of
Fibrous Plant Cells in New Solvents, by
G. Jayne, M. Harders-Steinhauser, 10 pp.

GERMAN, per, das Papier, Vol XIV, No 6,
1960, pp 228-234.

ATS-~~31144~~
3

Sci

196, 868

May 62

Vol 4, No 10

The Kinematic High Frequency Process of
Professor Willems, by P. Willems,
4 pp.

GHEMANN, per, Das Papier, Vol XIV, No 7,
1960.

SLA 60-11082

Sci
Vol IV, No 9,
Mar 62

187,019

On the Measurement of the Rigidity of
Paper, Carton Board and Board, I, by
W. Erecht, F. Muller, 10 pp.

GERMAN, par, Das Papier, Vol XIV,
No 7, 1960, pp 270-277.

SLA 60-18398

Sci
Vol IV, No 9
Mar 62

187, 127

The Distribution of Auxiliary Substances in the
Circulation of a Paper Machine at Application of an
Acid Rich Size (Hagoid), by G. Jayme, W. Demmig.

GERMAN, per, das Papier, Vol XIV, No 7, 1960,
pp 278-283.

SLA 61-18268

Sci
Mar 62

189,522

Vol VII, No 2

Ruck, F. and Ruck, H.
ELECTRON MICROSCOPIC INVESTIGATION OF
GREENWOOD PINES, I. May 61, 11p. (12 figs.)
ORNTAD 1-1175.
Order from SLA \$1.60 61-20195

Trans. of the Paper (West Germany) 1960, v. 14,
no. 9, p. 399-410.

DESCRIPTORS: *Electron microscopy. *Pine, *Wood
pulp, *Paper, *Ultraviolet optical material, Density.

(Materials--Wood, TT, v. 8, no. 6)

61-20195

I. Ruck, F.
II. Ruck, H.

Office of Technical Services

Comparison on the Retention of Rosin Acids on
the Papermachine Wire in the Presence of Various
Additives, by Georg Jayme, Werner Demmig,
25 pp.

GERMAN, per, das Papier, Vol XIV, No 9,
1960, pp 408-414.

SLA 61-10015

Sci

146,103

Apr 61

Brecht, W. and Muller, F.
STIFFNESS TESTING OF PAPER, CARTON, AND
BOARD. [III]. Apr 61, 12p. (12 figs. omitted).
Order from SLA \$1.60 61-16464

Trans. of das Papler (West Germany) 1960, v. 14,
no. 9, p. 414-422.

DESCRIPTORS: *Paper, Mechanical properties, Test
equipment, Stresses.

It was found that the majority of the different procedures
and instruments characterise rigidity only on a relative
basis and indirectly. The fundamental difference in the
bending behaviour of elastic and elasto-plastic mate-
rials was theoretically demonstrated and it was shown
that a distinction has to be made between two cases when
subjecting paper to bending stresses. One case is char-
acterised by such slight bending of the sample that the
strain at the sample surface does not exceed the region
(Materials--Paper, TT, v. 6, no. 6) (over)

61-16464

- I. Brecht, W.
- II. Muller, F.
- III. Title: On the Measurement
of the Rigidity of Paper,
Carton Board and Board,
II.

176530

Office of Technical Services

61-18571

Linde, F[riedrich].
PROBLEMS IN THE TECHNIQUE OF MEASURING
AT THE DRY END OF PAPER MACHINES. June 61,
8p. (2 figs. omitted) 5 refs.
Order from SLA \$1.10

61-18571

I. Linde, F.

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10, p. 453-457.

DESCRIPTORS: *Paper, Dehydration, Measurement,
Machines, Heat transfer, Quality control,
Instrumentation.

The thermal problems, such as temperature distribu-
tion and heat transfer encountered during the drying of
papers by means of steam-heated drying cylinders are
investigated, possible methods of measurement are
discussed, together with the most suitable installation
points for measuring equipment. It is preferable to
check the steam consumption of the individual drying
cylinders, as compared with steam pressure measure-
(Materials--Paper, IT, v. 8, no. 5) (over)

Office of Technical Services

61-20666

Wulsch, F[erdinand] and Schubert, K[arl].
IMPROVING THE PRINTABILITY OF PAPERS BY
THE ADDITION OF STRAW PULP. Sep 61, (5 figs.
omitted) 6 refs.
Order from SLA \$1.10

61-20666

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10, p. 458-461.

DESCRIPTORS: *Paper, Printing, Straw, Cellulose,
Additives, Manufacturing methods. .

1. Wulsch, F.
11. Schubert, K.

(Materials--Paper, TT, v. 8, no. 4)

Office of Technical Services

Rydholm, Sven A.
MULTISTAGE COOKING. [1961] (8 figs. omitted)
110 refs.
Order from SLA \$1.10 61-10759

Trans. of Das Papier (West Germany) 1960, v. 14,
no. 10a, p. 535-541.

DESCRIPTORS: *Wood pulp, Processing.

A survey.

(Materials--Wood. TT. v. 6. no. 6)

61-10759

I. Rydholm, S. A.

176509

Office of Technical Services

62-10276

Jayne, G. and Hunger, G.
PULP AND PAPER AS VIEWED STEREOSCOPICALLY
BY THE ELECTRON MICROSCOPE. [1961] 4p.
(16 figs. omitted)
Order from SLA \$1.10

62-10276

I. Jayme, G.
II. Hunger, G.

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, p. 550-553.

DESCRIPTORS: Cellulose, *Wood pulp, *Paper,
Electron microscopes, Stereoscopes.

An attempt is made in this lecture to show how our
knowledge of the fine structure of cellulose pulps and
their structural modification under various influences
may be broadened and deepened by stereoscopic ob-
servation. This was done by showing and comparing
ordinary electron-micrographs with stereo pairs.

(Author)

(Materials--Paper, IT, v. 7, no. 9)

Office of Technical Services

Brecht, W[alter] and Müller, F[riedrich].
ABOUT THE HANDLE OF PAPER. 1961, 16p.
(13 figs. omitted) 26 refs.
Order from SLA \$1.60

61-10886

I. Brecht, W.
II. Müller, F.

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, pp. 554-564.

DESCRIPTORS: *Paper, Physical properties, Mechan-
ical properties, Tests.

The definition, "handle", referring to the "feel" of
paper is examined and an attempt is made to relate it
to objective measurement. Some 43 papers of different
"handle" were distributed among 5 basis-weight ranges
for individual assessment by trade observers. Those
tactile properties (bending stiffness and thickness)
enabling the classification by "handle" by the expert
were measured, yielding a correlation between sub-
jective assessment and actual measurement (Spearman
order of merit correlation coefficient 0.986). The
(Materials--Paper, TT, v. 6, no. 1) (over)

61-10886

101625

Office of Technical Services

Nordman, L[ars] and Aaltonen, [Petri].
INVESTIGATIONS ON SOME METHODS FOR THE
CHARACTERISATION OF THE BEATING STATE OF
PULP. Feb 61, 14p. (29 figs. omitted) 8 refs.
Order from SLA no \$2.40, ph \$3.30

61-10931

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, p. 565-574.

(Materials--Paper, TT, v. 5, no. 11)

61-10931

1. Paper--Production
2. Wood pulp--Test methods
1. Nordman, L.
11. Aaltonen, P.

10931

Office of Technical Services

61-20513

Holte, T[orgrim] and Gregersen, A[lv].
METHOD FOR GRAVIMETRIC DETERMINATION OF
THE FLUFFING OF BOXBOARD. Oct 61, 6p. (10 figs.
omitted).
Order from SLA \$1.10

61-20513

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, p. 575-580.

DESCRIPTORS: *Containers, *Wood pulp, Surfaces,
Processing, *Paper industry, Gravimetric analysis,
Particles, Films, Adhesion.

1. Title: Fluffing
- I. Holte, T.
- II. Gregersen, A.

(Materials--Paper, IT, v. 8, no. 4)

Office of Technical Services

Brecht, W. and Pohl, A.
THE CONDITIONING OF PAPER AND ITS EFFECTS.
[1961] 18p. (16 figs. omitted) 15 refs.
Order from SLA \$1.60

61-16804

Trans. of the Paper (West Germany) 1960, v. 14,
no. 10, p. 100-103.

DESCRIPTORS: *Paper. Quality control. Physical
properties. Tests.

A paper which has been subjected to a conditioning
process cycle will, after a sufficient number of cycles,
attain a constant reaction, but will also show in drying
a greater shrinkage and on becoming humid a smaller
expansion than in the unconditioned state. Conditioned
paper will remain flatter than unconditioned only as
long as the climatic conditions to which, through con-
ditioning its moisture content was adjusted, do not
change. Measurements taken on an atomising humidifi-
cation machine showed that the principle of electro-
(Materials-Paper, TT, v. 6, no. 4) (over)

61-16804

I. Brecht, W.
II. Pohl, A.

177677

Office of Technical Services

62-14673

Barnscheffel, Wolfgang and Schädler, Max.
INVESTIGATIONS FOR ASCERTAINING THE OPTIMAL
PRIVATE USE METHODS FOR DRYING CYLINDERS
WITH RESPECT TO HEAT-TRANSFER AND POWER-
REQUIREMENT (No. 11427, 1pg. 157 figs. omitted).
Graz, Austria, 1960. 62-14673

- I. Title: Dewatering
- I. Barnscheffel, W.
- II. Schädler, M.

Frankfurt, Germany (East Germany) 1960, v. 14,
no. 1, p. 100-103.

DESI. 975, 975. Heat transfer, *Cylindrical bodies,
Condensate pumps, *Dehydration, Power supplies,
Helices, *Heat, Steam condensers, Velocity, Turbu-
lence, Vapor pressure, Machines, Construction.

For obtaining results utilizable directly in the practice
there was set up a steam-heated cylinder of diameter
1.5 meters and width 5 meters. The condensation water
in the cylinder forms at low velocities a hump and at
(Machinery, Fabrications and Accessory Equipment,
TT, v. 9, no. 5) (over)

Office of Technical Services

61-14905

Brecht, W. and Hildenbrand, W.
ABOUT THE DIMENSIONAL STABILITY OF PAPERS.
Mar 61, 18p. (21 figs. omitted) 79 refs.
Order from SLA \$1.60 61-14905

I. Brecht, W.
II. Hildenbrand, W.

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, p. 610-624.

DESCRIPTORS: *Paper, Quality control. Physical
properties, Tests.

An apparatus has been designed which yields curves
during paper tests recording the changes arising from
the moisture content during a change of climatic con-
ditions and the changes of dimensions of the papers as
a function of time. The results of ample investigations
show how different production conditions influence the
relation between climatic conditions and dimension
changes and affect the speed of these reactions. (Author

161762

Office of Technical Services

(Materials--Paper, TT, v. 6, no. 1)

61-10903

Jayne G[reen] and Demmig W[erner].
THE RETENTION OF VARIOUS STARCH, CMC AND
ALGINATE TYPES ON THE MACHINE WIRE
SCREEN, Feb 61, 6p. (5 figs. 4 tables omitted)
11 refs.
Order from SLA in: \$1.80, ph: \$1.80 61-10903

1. Paper industry--Equipment
 2. Chemical waste--
Analysis
- I - Jayne, G.
 - II - Demmig, W.

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, p. 629-630.

Tests were made to determine the retention on the
wire retaining trap of paper machines of the oxygen
consuming substances, starches, carboxymethyl-cellu-
lose, and alginic acids. Kaolin, titanium dioxide and
rosin size reduced the retention of these substances.

10903

Office of Technical Services

(Materials--Paper, TT, v. 5, no. 11)

61-20485

Muller-Rid, W., Stark, A., and Pausch, G.
THE QUALITY OF THE FORMATION AS A CONSEQUENCE OF CONSTRUCTIVE AND OPERATIVE FACTORS. [1961] 22p. (22 figs. omitted) 14 refs.
Order from SLA \$2.60 61-20485

I. Muller-Rid, W.
II. Stark, A.
III. Pausch, G.

Trans. of Jap. Paper (West Germany) 1960, v. 14, no. 12, p. 697-709.

DESCRIPTORS: *Paper, Paper industry, Production, Industrial equipment.

Hydrodynamic measurements, which have been carried out in the laboratory at models and at normally sized stuff distributors and stock inlets, show that only a firm knowledge about the hydrodynamical behaviour of the construction elements enables the constructor to project and to dimension stuff distributor
(Materials--Paper, TT, v. 7, no. 7) (over)

Office of Technical Services

61-14924

Jayne, G. and Jerratech, H. J.
THE K₂ METHOD, A MODIFIED KAPPA NUMBER
DETERMINATION FOR SEMI-CHEMICAL PULPS OF
MORE THAN 70% YIELD. Mar 61, 9p. (4 figs.
omitted) 6 refs.
Order from SLA \$1.10 61-14924

I. Jayne, G.
II. Jerratech, H. J.

Trans. of the Paper (West Germany) 1960, v. 14,
no. 12, p. 718-723.

DESCRIPTORS: *Wood pulp, *Potassium,
*Permanganates, Oxidation, Determination.

161763

Office of Technical Services

(Chemistry--Analytical, TT, v. 6, no. 1)

61-16120

Brecht, Walter] and Erfurt, H[orst].
OBSERVATIONS ON THE STRETCH OF PAPER.
Mar 61, 19p. (14 figs. omitted) 28 refs.
Order from SLA \$1.60 61-16120

Trans. of das Papier. (West Germany) 1960, v. 14,
no. 12, p. 723-736.

DESCRIPTORS: *Paper, Wood pulp fibers, Mechanical
properties, Physical properties, Tests.

A previously described apparatus (das Papier 13: 583,
1959; available in translation from SLA as 61-10207)
was used to study the effects which the solid content of
the paper, the type of fibres used and their degree of
beating, and the structural character of mechanical and
chemical pulps exert on the extensibility of papers.

(Materials--Paper, TT, v. 6, no. 4)

I. Brecht, W.
II. Erfurt, H.

177640

Office of Technical Services

61-20189

Ogait, A.

A RAPID METHOD FOR DETERMINING HARMFUL PITCH IN SOFT-WOOD PULPS. [1961] Sp. (4 figs. omitted) 11 refs.

Order from SLA \$1.10

61-20189

I. Ogait, A.

Trans. of the Paper (West Germany) 1961, v. 15, no. 1, p. 10-16.

DESCRIPTORS: *Wood pulps, *Pitch, Determination, Separation, Flotation, *Paper industry, Chemical engineering.

Details are given of a rapid method for determining harmful pitch in coniferous wood pulps which, as compared with previous methods, has the advantage of providing results within a relatively short period and is also capable of use for routine determination. (Machinery Paper, IT, v. 7, no. 5) (over)

Office of Technical Services

Practical Investigations Concerning Fresh and
Backwater Problems in Paper Machines, by
F. Wultsch, K. Maier.

GERMAN, per, Papier, Vol XV, No 4, 1961, pp 130-134.

GB/167/Reprint 2510

Sci-Engr
Feb 63

222,595

62-17249

Fahmy, Yehia and Abu-Stat, Amin.
INFLUENCE OF MORPHOLOGICAL, CHEMICAL
AND SOME PHYSICAL PROPERTIES OF THE PULP
ON THE FILTERABILITY OF THE VISCOSES. Pt. 1
On the Testing of Rayon Grade Pulps. May 62, 5240
wards.
Order from LSA \$50.00

Trans. of das Papier (West Germany) 1961, v. 15,
no. 5, p. 44-51

DESCRIPTORS: *Wood pulp, Chemical properties,
Physical properties.

(Materials--Paper, TT, v. 8, no. 2)

I. Fahmy, Y.
II. Abu-Stat, A.
III. Title: On ...
IV. Literature Service
Associates, Bound
Brook, N. J.

Office of Technical Services

CLEANLINESS IN THE CIRCULATION OF THE
WATER SYSTEM. May 61, 3p.
Order from SLA \$1.10

61-18805

Trans. of das Papier. (West Germany) 1961, v. 15,
no. 3, p. 109-110.

DESCRIPTORS: *Water supplies, Paper industry,
*Purification, Chemical wastes, Drainage, Sanitary
engineering.

Remarks made by Dr. Konrad Wernicke at a lecture
on December 9, 1960 to the Study Committee on
"Water, waste water and effluents" of the Chemical
Pulp and Paper Institute are given. These remarks
concerned the Interim Directives dated June 1960 for
requirements concerning the composition of effluents
(Engineering--Sanitation, TT, v. 6, no. 10)

61-18805

1. Title: Antipollution
1. British Paper and Board
Industry Research
Association

Office of Technical Services

62-10349

Werr, F.
THE DETERMINATION OF THE GREASE RESIST-
ANCE OF PAPERS, PT. 1. [1961] 12p. (1 fig.
omitted) 36 refs.
Order from SLA \$1.60

I. Werr, F.

SLA 62-10349

Trans. of das Papier (West Germany) 1961, v. 15,
no. 6, p. 222-229.

DESCRIPTORS: *Paper, Greases, Resistance,
Determination.

The article outlines observations made concerning
grease resistance and greaseproof papers. The test-
ing methods currently employed are described and
critically examined by taking into consideration ex-
perimentally obtained results. In establishing a
standard method for testing a paper consideration
must be given to the purpose the paper must serve.
(Materials-Paper, TT, v. 7, no. 9) (over)

Office of Technical Services

Stahn, Richard.
METHOD FOR QUANTITATIVE DETERMINATION
OF AIR CONTENT IN VISCOSE. Jan 64, 1630words
Order from LSA \$15.00

Trans. of [dis] Papier (West Germany) 1961, v. 15,
no. 6, p. 229-231.

DESCRIPTORS: "Viscose, Air, Fibers (Synthetic),
Quantitative analysis, Paper industry.

(Materials--Paper, TT, v. 11, no. 11)

TT-64-12334

I. Stahn, R.
II. Literature Service
Associates, Bound Brook,
N. J.

Office of Technical Services

62-10277

Sedivy, M. and Kubat, J.
BASIC FACTORS AFFECTING THE CRUSH
STRENGTH OF PAPERS MANUFACTURED FROM
HIGH YIELD PULP. [1961] 7p. (14 figs. omitted)
1 ref.
Order from SLA \$1.10 62-10277

I. Sedivy, M.
II. Kubat, J.

Trans. of das Papier (West Germany) 1961, v. 15,
no. 6, p. 232-237.

DESCRIPTORS: *Paper, *Wood pulp, Manufacturing
methods, Quality control, Test methods.

The present treatise deals exclusively with the technique of manufacturing and converting the paper for the fluting paper of corrugated board, the most important factors which affect the quality of the paper are discussed. The basis for these conclusions was provided by a long series of experiments carried out (Materials--Paper, TT, v. 7, no. 9) (over)

Office of Technical Services

62-10398

Werr, F.
THE DETERMINATION OF THE GREASE RESIST-
ANCE OF PAPERS, PT. II. Oct 61. 12p.
Order from SLA \$1.60 62-10398

I. Werr, F.

Trans. of das Papier (West Germany) 1961, v. 15,
no. 7, p. 318-322.

DESCRIPTORS: *Paper, Greases, Resistance,
Determination.

See also 62-10349 -

*also 62-149044
62-16708*

(Materials--Papers, TT, v. 7, no. 9)

Office of Technical Services

TT-64-16520

L. Becker, K.

Becker, K.
THE GAS PERMEABILITY OF PLASTIC COATED
PAPERS WITH PARTICULAR REGARD TO PAPERS
COATED WITH POLYETHYLENE (Über die
Gasdurchlässigkeit Kunststoffbeschichteter,
Insbesondere Polyethylenbeschichteter Papiere). [13p]
(foreign text included)
Order from SLA \$1.60 TT-64-16520

Trans. of das Papier (West Germany) 1961, v. 15,
no. 9, p. 407-410.

(Materials--Paper, TT, v. 12, no. 4)

Office of Technical Services

62-10309

Werr, F.
THE DETERMINATION OF THE GREASE RESIST-
ANCE OF PAPERS, Pt. III. Oct 61, 21p. (5 figs.
omitted) 3 refs.
Order from SLA \$2.60 62-10309

I. Werr, F.

Trans. of das Papier (West Germany) 1961, v. 15,
no. 9, p. 415-427.

DESCRIPTORS: *Paper, Greases, Resistance,
Determination.

See also 62-10398

(Materials--Paper, TT, v. 7, no. 9)

Office of Technical Services

62-15917

Jayne, George, Gustav, Urs, and Daback, Max,
MECHANISMS IN ALKALI SULPHITE COOKING WITH
CALCIUM OR SODIUM BATE. [In 2] [15]p. 22 refs.
Order from: SLA \$1.00 62-15917

- I. Jayne, G.
- II. Gasche, U.
- III. Daback, M.

Trans. of the Paper Inst. of Canada 1961, v. 15,
p. 538-544.

DISCUSSION: *wood pulp, *sulfites, Processing,
Mechanical properties, *Paper industry, Manufacturing
methods, Chemical analysis.

(Materials - Wood. TT, v. 9, no. 7)

Office of Technical Services

Virkola, Nila-Erik and Alm, Aarnto A.
APPROACHES TO THE POSSIBILITIES OF CONTROL-
LING THE QUALITY OF PAPER PULP. [1962] 19p.
(figs. omitted) 34 refs.
Order from SLA \$1.60

63-10150

Trans. of das Papier (West Germany) 1961, v. 15,
no. 10A, p. 522-529.

DESCRIPTORS: *Wood pulp. *Paper industry. Quality
control, Manufacturing methods.

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

63-10150

I. Virkola, N.-F.
II. Alm, A. A.

Office of Technical Services

Albrecht, J. and Falter, K.-A.
COMPARATIVE ASSESSMENTS OF THE PRINTABILITY OF PRINTING PAPERS. Apr 62, 13p. (figs. omitted) 15 refs.
Order from SLA \$1.60

62-16508

Trans. of [das] Papier (West Germany) 1961, v. 15, no. 10a, p. 610-625.

DESCRIPTORS: *Papers, *Printing, Quality control, Statistical functions, *Ink.

(Materials--Paper, TT, v. 8, no. 10)

62-16508

I. Albrecht, J.
II. Falter, K.-A.

Office of Technical Services

62-16505

Brecht, W. and Kirchner, U.
THE AIR CONTENT OF PAPER PULP SUSPEN-
SIONS. Mar 62. 10p. (figs. omitted) 5 refs.
Order from SLA \$1.10 62-16505

I. Brecht, W.
II. Kirchner, U.

Trans. of das Papier (West Germany) 1961. v. 15.
no. 10a. p. 625-634.

DESCRIPTORS: *Paper. Production. Air. Absorption.
Bubbles. Foams. Stability. *Wood pulp. Water.
Drainage. Milling machines. Particles.

(Materials--Paper. TT, v. 8. no. 10)

Office of Technical Services

62-16504

Brecht, W. and Weltzel, W.
THE SPECIFIC CLEANING ACTION OF DIFFERENT
TYPES OF WIRE SPRAY PIPES. Mar 62, 7p. (figs.
omitted) 5 refs.
Order from SLA \$1.10

62-16504

Trans. of [das] Papier (West Germany) 1961, v. 15,
no. 10a, p. 635-643.

DESCRIPTORS: Paper, Products, *Milling machines,
Pipes, *Cleaning, Water, *Spray nozzles, Consump-
tion, Reduction, Liquid jets, Wire screens, Water
filters, Water impingement

A mathematical procedure is given for calculating
the tension in the various parts of the wire, the
tractive force required, and the distribution of the
tractive forces between the two driving rolls, for
calculation of the power of the electric drive. In this
(Materials--Paper, TT, v. 8, no. 10) (over)

I. Title: Fourdrinier wire
I. Brecht, W.
II. Weltzel, W.

Office of Technical Services

63-10791

Gorling, P.
BEHAVIOR OF HYDROPHILIC HYDRATE CELLULOSE
GEL FILMS IN THE COURSE OF THE DRYING
PROCESS. (Verhalten Hydrophiler Gelfilme aus
Celulosehydrat Beim Trocknen). Apr 62 [33]p. 8 refs.
Order from SLA \$3.60 63-10791

I. Gorling, P.

Trans. of ~~Das Papier~~ (West Germany) 1962, v. 16,
no. 1, p. 9-18.

DESCRIPTORS: *Hydrates, *Cellulose, *Gels, *Films,
Dehydration, Processing, Mechanical properties.

(Materials--Plastics, TT, v. 9, no. 12)

Office of Technical Services

Lehmann, Wolfgang.
AUTOMATIC CONTROL DEVICES FOR PAPER
MACHINES. PT. I. 29 June 62, 21p. (12 figs. refs.
omitted).
Order from SLA \$2.60

62-18043

Trans. of das Papier (West Germany) 1962, v. 16,
no. 2, p. 53-61.

DESCRIPTORS: Paper, Paper industry, *Wood pulp
machines, Machines, *Automation, Quality control,
Manufacturing methods, *Control systems.

(Materials--Paper, TT, v. 8, no. 8)

62-18043

I. Lehmann, W.

Office of Technical Services

**A Small-Scale Laboratory Viscose Plant for
Testing Pulp for Chemical Fibers,, by
E. Treiber, J. Rehnstrom.
GERMAN, par, das Papier, Vol 16, 1962,
pp 85-94.
HTC-69-12942-11L**

**Sci-Mat
Sept 69**

391,246

Small-Scale Laboratory Viscose Plant for Testing
Pulp for Chemical Fibres, by E. Treiber.

GERMAN, per, Papier, Vol XVI, 1962, pp 85-94.

NZDIA

Sci- M/M
Mar 63

225,283

62-16511

Geenen, H.
NEW ROUGHNESS TESTER AND ITS CONTRIBUTION
TO THE EVALUATION OF PRINTABILITY. Feb 62
[9]p. (figs. table omitted) 1 ref.
Order from SLA \$1.10 62-16511

L. Geenen, H.

Trans. of [de] Papierwereld (Netherlands) 1961, v. 16,
no. 3, p. 63-65, 68, 73; no. 4, p. 91-95, 97, 100-103.

DESCRIPTORS: *Paper, *Printing, Test equipment,
Reproduction, Photographic paper, Quality control,
Surfaces.

The difference between the smoothness achieved by
dynamic supercalendering and by glazing between
steel plates was studied. With approximately the same
roughness mean values, the non-uniformity in rough-
ness or the uniformity in smoothness in papers glazed
between two steel plates was greater than in paper
(Materials--Paper, TT, v. 8, no. 10) (over)

Office of Technical Services

Lehmann, Wolfgang.
AUTOMATIC CONTROL DEVICES FOR PAPER
MACHINES, PT. II. 29 June 62, 16p. (5 figs. refs.
omitted).
Order from SLA \$1.60

62-18044

Trans. of das Papier (West Germany) 1962, v. 16,
no. 3, p. 95-102.

DESCRIPTORS: *Paper, Paper industry, *Wood pulp
machines, Machines, *Automation, Quality control,
Manufacturing methods, Dehydration, Steam, Control
systems.

See also 62-18043.

(Material--Paper, TT, v. 8, no. 8)

62-18044

I. Lehmann, W.

Office of Technical Services

The Behavior of Hydrophilic Gel Films of
Cellulose Hydrate Upon Drying, by P. Goerling.
GERMAN, per, Papier, Vol 16, 1962, pp 9-18.
NTC-71-12680-111

Nov 71

63-10060

Jayne, G. and Fengel, D.
ELECTRON MICROSCOPE PHOTOGRAPHS OF THE
SURFACES OF SEMI-CHEMICAL SOFT WOOD PULP
FIBRES. Nov 62, 7p. (figs. omitted) 13 refs.
Order from SLA \$1.10 63-10060

I. Jayne, G.
II. Fengel, D.

24/15

Trans. of das Papier (West Germany) 1962, v. 16, no. 4,
p. 125-130.
Another trans. is available from SLA \$1.10 as
62-20469 [1962] 10p.

DESCRIPTORS: *Wood pulp fibers, Surfaces, Photo-
graphic analysis, Electron microscopes, *Cellulose
chemistry.

In contrast with pulp fibres the electron microscope
pictures taken of replicas of unbleached softwood semi-
chemical pulp fibres show surfaces which are more or
less extensively blurred by deposited lignin and
hemicelluloses. The swelling of the fibre walls during
(Materials--Wood, T1, v. 9, no. 9) (over)

Office of Technical Services

62-18045

Lehmann, Wolfgang.
AUTOMATIC CONTROL DEVICES FOR PAPER MA-
CHINES, PT. III. 29 June 62, 16p. (7 figs. refs.
omitted).

Order from SLA \$1.60

62-18045

Trans. of das Papier (West Germany) 1962, v. 16,
no. 4, p. 131-138.

DESCRIPTORS: *Paper, Paper industry, *Wood pulp
machines, Machines, *Automation, Quality control,
Manufacturing methods, *Control systems.

See also 62-18044

(Materials--Paper, TT, v. 8, no. 8)

I. Lehmann, W.

Office of Technical Services

63-18272

Matthes, A.
USE OF STATISTICS IN THE RESEARCH WORK OF
THE PULP AND REGENERATED FIBER INDUSTRY.
[7 Feb 63] [26]p. 3 refs.
Order from SLA \$2.60

63-18272

I. Matthes, A.

Trans. of das Papier (West Germany) 1962, v. 16,
no. 6, p. 229-236.

DESCRIPTORS: Industrial research, Statistical
analysis, *Wood pulp, *Fibers (Synthetic), Paper
industry, Rupture, Probability, Tensile properties,
Viscose, Cellulose, Chemical properties.

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

(over)

Office of Technical Services

63-10075

Kubat, Jan and Sedivy, Milan.
THE EFFECT OF PULP YIELD ON SUITABILITY
OF DIFFERENT RAW MATERIALS FOR MAKING
LINER BOARDS FOR CORRUGATING MEDIUM.
[1962] [14]p.
Order from SLA \$1.60

63-10075

Trans. of das Papier (West Germany) 1962, v. 16,
no. 6, p. 236-243.

DESCRIPTORS: *Paper, *Fiberboard, Mechanical
properties, Packing materials, Wood pulp, Industrial
production.

(Materials--Paper, TT, v. 10, no. 3)

I. Title: Corrugated board
I. Kubat, J.
II. Sedivy, M.

REC/24 C-4131

Office of Technical Services

TT-63-20576

Hirschberg, Rudolf.
ON A PROCESS FOR THE CONTINUOUS MANU-
FACTURE OF CHLORINE DIOXIDE FROM SODIUM
CHLORATE AND SULFUR DIOXIDE (Über ein
Verfahren zur kontinuierlichen Herstellung von
Chlordioxyd aus Natriumchlorat und Schwefeldioxyd).
[1963] [16p] (foreign text included) 23refs
Order from SLA \$1.60 TT-63-20576

Reprint trans. of *das Papier* (West Germany) 1962,
v. 16, no. 9, p. 419-423. (Abstract available)

DESCRIPTORS: *Industrial production, *Chlorine
compounds, Dioxides, Sodium compounds, Chlorates,
Sulfur compounds, Chemical reactions, *Bleaching
agents.

The paper describes the successful industrial production
of chlorine dioxide in a 4 stage continuous process
through the reaction of NaClO_3 , SO_2 and H_2SO_4 . The
(Engineering--Chemical, TT, v. 11, no. 4) (over)

I. Hirschberg, R.

Office of Technical Services

63-14670

Jayne, G. and Fengel, D.
ELECTRON OPTICAL STUDIES OF THE FINE
STRUCTURE OF SOFTWOOD CELLS. Jan 63 [7]p.
(figs. tables omitted) 33 refs.
Order from SLA \$1.10 63-14670

I. Jayne, G.
H. Fengel, D.

Trans. of the Papier (West Germany) 1962, v. 16,
no. 10a, p. 519-524.

DESCRIPTORS: *Electron microscopes, Wood,
*Wood pulp, *Electron optics.

(Materials--Wood, TT, v. 10, no. 4)

Office of Technical Services

63-18276

Bartunek, Richard.

RECENT CONTRIBUTIONS TO THE THEORY OF THE
VISCOSE PROCESS (Beiträge zur Viskosechemie).

[10 Aug 63] [20]p. 19 refs.

Order from SLA \$1.60

63-18276

Trans. of das Papier (West Germany) 1962, v. 16,
no. 10a, p. 568-574.DESCRIPTORS: *Viscose, Processing, Theory, Chemi-
cal industry, Cellulose, Sodium compounds, Hydrates,
Aging (Materials), Xanthic acid, Solubility, *Wood pulp,
Sheets, *Paper industryParticular consideration was given to such items as: the
identification of the NaOH-hydrate complex participat-
ing in the formation of sodium cellulose I; the specific
pulp sheet properties causing insufficient mercerization
in the dipping press; studies on the reaction mechanism
in the aging process and the influence of resins, waxes
(Materials--Paper, TT, v. 10, no. 11) (over)1. Title: Mercerization
I. Bartunek, R.

Office of Technical Services

<p>Brecht, W. FIBRE RECOVERY FROM PAPER MACHINE WASTE WATER. [1963] 13p (figs omitted) 13refs Order from SLA \$1.60 TT-64-14348</p> <p>Trans. of the Paper (West Germany) 1962, v. 16, no. 10a, p. 633-643.</p> <p>DESCRIPTORS: *Wastes (Industrial), Machines, *Paper, *Wood pulp, Recovery, Flotation (Separation).</p> <p>(Materials--Paper, TT, v. 11, no. 7)</p>	<p>TT-64-14348</p> <p>I. Brecht, W.</p> <p>Office of Technical Services</p>
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TT-63-20826

Brecht, W. and Zippel, F.
INVESTIGATIONS INTO THE OPERATION OF MILL
WASTE WATER CLARIFICATION PLANTS. [1963]
[15p] (figs omitted) 2refs
Order from SLA \$1.60

TT-63-20826

Trans. of the Paper (West Germany) 1962, v. 16,
no. 10a, p. 645-654. (Abstract available)

DESCRIPTORS: *Water supplies, *Wastes (Industrial),
*Purification, Paper industry, Sedimentation, Separation,

Investigations on 13 clarifying installations employed by
the Paper and Board Industry indicated that considerable
differences existed in the layout of the installations and
the circulatory systems inside the overall production
water system. So far as fibre recovery is concerned,
good clarifying effects are almost always obtained,
although with chemical/mechanical clarification there is
(Engineering--Chemical, TT, v. 11, no. 3) (over)

I. Title: Clarification
I. Brecht, W.
II. Zippel, F.

Office of Technical Services

63-16642

Luhde, Friedrich.
THE INFLUENCE OF CONVENTIONAL AND DISK-
REFINED GROUNDWOOD PROCESSES ON WOOD
DEPIBRATION. [1963] 27p. 7 refs.
Order from SLA \$2.60 63-16642

I. Luhde, F.

Trans. of Das Papier (West Germany) 1962, v. 16,
no. 11, p. 655-663.

MAR/Ref: C-4395

DESCRIPTORS: *Wood pulp, Fibers (Natural), Lignin,
Material separation.

(Materials--Paper, TI, v. 10, no. 8)

Office of Technical Services

TT-63-20827

Jayne, G. and Murty, V. L.
ESTABLISHING THE FLOCCULATION OF FIBRE
SUSPENSIONS, ITS INFLUENCE ON SHEET STRUC-
TURE, AND VARIATIONS CAUSED BY MANNO-
GALACTAN. Aug 63 [20p] 14refs
Order from SLA \$1.60

TT-63-20827

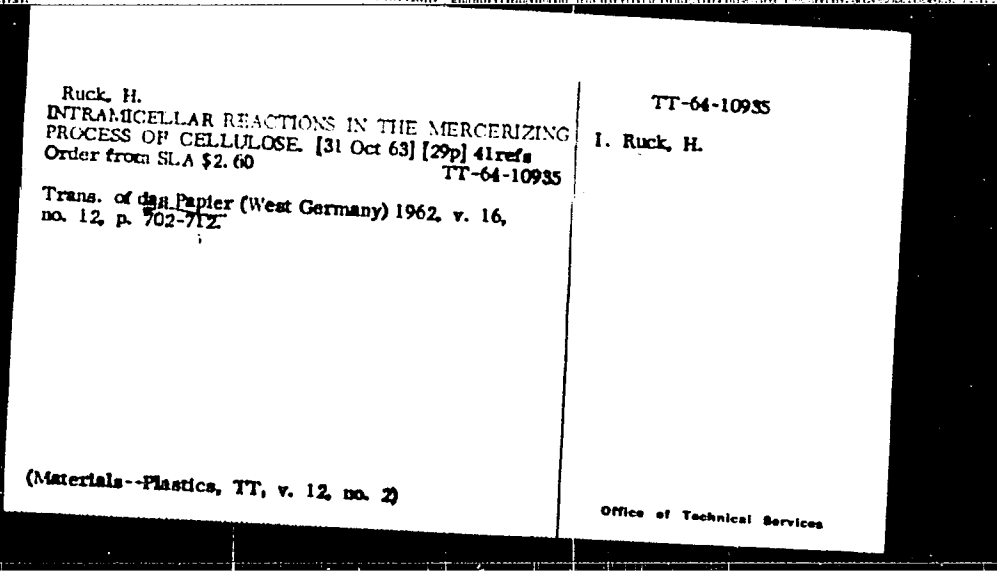
Trans. of das Papier (West Germany) 1962, v. 16,
no. 11, p. 664-670. (Abstract available)

DESCRIPTORS: *Wood pulp, Sheets, *Fibers, Chemical
precipitation, Mechanical properties, Additives,
Material separation, Microstructure.

Laboratory investigations were conducted to study
flocculation in fibre suspensions prepared from five
different types of bleached pulp as well as from mixtures
of spruce and straw pulp. The results clearly indicated
a linear increase of the degree of non-uniformity (WZ)
(Materials--Wood, TT, v. 11, no. 4) (over)

I. Title: Mannogalactan
I. Jayne, G.
II. Murty, V. L.

Office of Technical Services



Ruck, H.
INTRAMICELLAR REACTIONS IN THE MERCERIZING
PROCESS OF CELLULOSE. [31 Oct 63] [29p] 41 refs
Order from SLA \$2.60

TT-64-10935

I. Ruck, H.

TT-64-10935

Trans. of das Papier (West Germany) 1962, v. 16,
no. 12, p. 702-712

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

Office of Technical Services

Voss, J. and Meyer-Berge, O.
STRUCTURE OF CELLOPHANE. [12 Jul 63] [13p]
3refs
Order from SLA \$1.60 TT-64-10932
Trans. of das Papier (West Germany) 1962, v. 16,
no. 12, p. 724-728.

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

TT-64-10932

I. Voss, J.
II. Meyer-Berge, O.

Office of Technical Services

TT-63-20574

I. Hirschberg, R.

Hirschberg, Rudolf.
ON A PROCESS FOR THE MANUFACTURE OF
CHLORINE DIOXIDE ON THE BASIS OF THE RE-
ACTION OF CALCIUM CHLORATE WITH HYDRO-
CHLORIC ACID (Über ein Verfahren zur Herstellung
von Chlordioxyd auf Grundlage des Umsatzes von
Calciumchlorat mit Salzsäure). [1963] [18p] (foreign
text included) Brefs
Order from SLA \$1.60

TT-63-20574

Reprint trans. of *das Papier* (Germany) 1963, v. 17
(no. 1) p. 1-5. (Abstract Available)

DESCRIPTORS: *Chlorine compounds, *Dioxides,
Production, *Calcium compounds, *Chlorates,
Chlorides, *Hydrochloric acid, *Catalysts, Manganese,
Silver catalysts, Towars (Chemistry), Wood pulp,
*Bleaching agents.

(Engineering--Chemical, TT, v. 11, no. 6) (over)

Office of Technical Services

Contribution to the Knowledge of Sulphate Pulp
with Biological Properties - Morphology and
Condition of Swelling, by H. Gessler, G. Jayme.
GERMAN, per, Das Papier, Vol 17, No 1, 1963,
pp 5-14
Gb 167/3533

Sci -
Jul 67

334,156

<p>Brüning, D. SYNTHETIC FIBERS: A RAW MATERIAL IN THE MANUFACTURE OF PAPER (Synthetische Fasern als Papierrohstoff). [6 May 63] [15]p. (figs. omitted) 63 refs. Order from SLA \$1. 60</p>	<p>63-18366 I. Brüning, D. II. Title: Raw...</p>
<p>Trans. of das Papier (West Germany) 1963, v. 17, no. 2, p. 45-52.</p>	
<p>DESCRIPTORS: *Fibers (Synthetic), Processing, Materials, Cellulose, Polyamide plastics, Paper industry, Machines.</p>	
<p>A state-of-the-art survey.</p>	
<p>(Materials--Paper, TT, v. 10, no. 11)</p>	<p>Office of Technical Services</p>

Brecht, W. and Wanka, R.
CONTRACTION OF PAPER IN THE CROSS DIREC-
TION. Jan 64, 11p (figs omitted) 6refs
Order from SLA \$1.60 TT-64-14800

Trans. of das Papier (West Germany) 1963, v. 17,
no. 4, p. 141-147.

(Materials--Paper, TT, v. 11, no. 11)

TT-64-14800

I. Brecht, W.
II. Wanka, R.

Office of Technical Services

Glertz, Hans, W.
HIGH YIELD PULPS AND THEIR PROPERTIES. [1963]
[10p] 10refs
Order from SLA \$1.10 TT-64-10684

Trans. of das Papier (West Germany) 1963, v. 17,
no. 5, p. 181-196.

DESCRIPTORS: *Wood pulp, Lignin, *Paper, Sheets,
Stretch forming, Fibers, Sulfitcs, Processing,
Mechanical properties.

(Materials--Paper, TT, v. 11, no. 6)

TT-64-10684

I. Glertz, H. W.

Office of Technical Services

Müller-Rid, W. and others.
A CONTRIBUTION TO EXPLAIN THE APPEARANCE
OF BARRINGS ON PAPER PRODUCED ON HIGH-
SPEED PAPER MACHINES. [1963] [17p] (figs omitted)
4refs
Order from SLA \$1.60 TT-63-20825

Trans. of das Papier (West Germany) 1963, v. 17, no. 5,
p. 197-206.

DESCRIPTORS: *Paper, Production, *Machines, Oscil-
lation, Sheets, Thickness, Vibration, Industrial
equipment.

(Materials--Paper, TT, v. 11, no. 3)

TT-63-20825

I. Müller-Rid, W.

Office of Technical Services

Nordman, L. and Göttsching, L.
STRENGTH OF FIBER-FIBER BONDS IN PAPER
FROM BIRCH SEMICHEMICAL PULP. [1963] [21p]

Zrefa
Order from SLA \$2.60 TT-63-20727

Trans. of the Paper Inst. (West Germany) 1963, v. 17
[no. 6] p. 237-246.

DESCRIPTORS: *Paper, *Wood pulp, Mechanical
properties, Material forming, Bleaching.

It was found that the bonding strength increases with increasing beating. The bonding strength value was expressed in erg/cm², the work necessary to separate the bonded fibre surfaces in an optically measured bonding unit area. This is explained by the increase of contact areas capable of bonding during the course of the beating. The change in bonding strength values in (Materials--Paper, TT, v. 11, no. 4) (over)

TT-63-20727

I. Nordman, L.
II. Göttsching, L.

Office of Technical Services

Damping of Paper With the V.I.B. Spray Dampener,
by P. Schlechter.

GERMAN, per, Papier, Vol 17, No 9, 1963,
pp 471-472.
GB/167/3814

Sci -
Jul 67

334,642

Printability of High Gloss Papers, by H. Toepsch.
GERMAN, per, Papier, Vol 17, No 10a, 1963,
pp 8-634 - 638
GB 167/4012

Sci -
Jul 67

334,161

TT-64-16363

Ogalt, Alfred.
INCREASED SULPHITE YIELDS THROUGH "NEUTRO"
FULFURIC Sp. Sulfur.
Order from SLA \$1.10

TT-64-16363

I. Ogalt, A.

Trans. of the Paper (West Germany) 1963, v. 17,
no. 11, p. 639-643.

(Abstracts—Paper, TT, v. 12, no. 4)

Office of Technical Services