

Aerodynamic Improvement of Blading (Cont.)	SOV/4519	
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1. On designing turbine-stage blades with a small width to length ratio		286
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117430

AUTHOR: Zysina-Molozhen, L. M.

TITLE: Calculation of the thermal boundary layer in a flow of compressible gas

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, no. 6, 1962, 21 - 26.

TEXT: The author suggested a semiempirical approximation method for a sufficiently accurate determination of the laminar, the transition, and the turbulence zones of a boundary layer formed in the flow of compressible gas round a surface. On the basis of the integral energy equation expressed in variables according to Dorodnitsyn for a plane flow of compressible gas, the equation

$$\frac{d\delta_r^{**}}{dx} + \frac{U_0'}{U_0} \delta_r^{**} = \frac{T_0^*}{T_\infty^*} (1 - a_0^2)^{\frac{k}{k-1}} \frac{Nu_x}{PrRe_x} \quad (7)$$

was derived, and the parameters

$$\delta_r = \frac{U_0'}{U_0} \delta_r^{**} G_r \quad (8)$$

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Calculation of the thermal ...

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and

$$\chi = \frac{T_0}{T_w} (1 - \alpha_0^2)^{\frac{k}{k-1}} \frac{Nu_x}{PrRe_x} Gr \tag{9}$$

were introduced on the assumption that they change along the surface under flow and that they clearly define all characteristics of the boundary layer. Under certain conditions,  $G_T$  was found to be equal for flows round a profile or a plate. A formula analogous to that for incompressible flows was found for  $G_T$ . A comparison of the equation derived for calculating local heat transfer numbers for compressible flow with the corresponding equation for incompressible flow showed a formal similarity between the equations for calculating the intensity of heat transfer in compressible and incompressible gas flows. The comparison of these equations yields the relation

$$Nu_x = Nu'_x \left[ \frac{1 - \alpha_\infty^2}{1 - \alpha_0^2} \right]^{\frac{k}{k-1}} = Nu'_x \left[ \frac{1 - \frac{k-1}{2} \lambda_\infty^2}{1 - \frac{k-1}{2} \lambda_0^2} \right]^{\frac{k}{k-1}} \tag{21}$$

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which shows  $Nu_x = Nu'_x$  for  $\alpha_o = \alpha_\infty$  or  $\lambda_o = \lambda_\infty$ . This is in agreement with experimental results.  $\rho_o^*$  is the density corresponding to the braking parameters,  $U_o$  is the velocity, and  $T_o$  the temperature outside the boundary layer,  $T_w$  the wall temperature; the asterisk corresponds to the braking parameters. There are 2 figures.

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut im. I. I. Polzunova, G.  
Leningrad (Central Boiler and Turbine Institute imeni I. I. Polzunov, Leningrad)

SUBMITTED: September 1, 1961

Card 3/3

ZYSINA-MOLOZHEN, L.M.; POLYAK, M.P.; ATENKOV, S., tekhn. red.

[Calculating the temperature field in a cooled turbine blade;  
Conference on Heat and Mass Transfer, Minsk, January 23-27, 1961]  
Raschet polia temperatur v okhlazhdaemoi turbinnoi lopatke; sove-  
shchanie po teplo-i massoobmenu, g. Minsk, 23-27 ianvaria 1961 g.  
Minsk, 1961. 9 p. (MIRA 15:2)  
(Thermodynamics) (Gas turbines--Blades)

ZYSINA, L. M. MOLOZHEN

"Determination of the turbulent exchange constants in a stream of compressed gas."

Report presented at the 1st All-Union Conference on Heat- and Mass- Exchange, Minsk, BSSR, 5-9 June 1961

ZYSINA-MOLOZHEN, L. M. and POLYAK, M. P.

"The Calculation of Temperature Field in a Body of a Cooled Turbine Blade."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

ZASINA-MOLOZHEN, L. M.; SOSKOVA, I. N.

"An investigation of the influence of the compressibility and temperature factor on the structure of a turbulent boundary layer."

report submitted for 2nd All-Union Conf on Heat & Transfer, Minsk, 4-12 May 1964.

Polzunov Boiler & Turbine Inst.



СЫСЛА-БОДУМЕН, Л. М.; ГОЛЯК, М. П.; ФЕДУКОВ, Л. С.

"Temperature-field calculation in a gas-turbine blade with internal cooling."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12  
May 1964.

Polzunov Boiler & Turbine Inst.

POVKH, I.L. Primal uchastiye SMIRNOV, G.V., inzh.; ZYSINA-MOLOZHEN,  
L.M., prof., doktor tekhn. nauk, retsenzent

[Aerodynamic experiment in the manufacture of machinery]  
Aerodinamicheskiy eksperiment v mashinostroenii. 2. dop. i  
ispr. izd. Moskva, Mashinostroenie, 1965. 479 p.  
(MIRA 18:12)

L 14478-66 EWT(1)/EWT(m)/EWP(w)/ETC(f)/EPP(n)-2/EWC(m)/EWP(v)/T-2/EWP(k)/  
ACC. NR. AT6001356 ETC(m)-6 WW/EM/GS SOURCE CODE: UR/0000/65/000/000/0093/0103

AUTHOR: Zysina-Molozhen, L. M.; Uskov, I. B.

81  
B+1

ORG: Central Boiler and Turbine Institute im. I. I. Polzunov  
(Tsentral'nyy kotloturbinnyy institut)

TITLE: Experimental investigation of heat transfer on the end wall of an interblade channel

SOURCE: Teplo- i massopereenos. t. 1: Konvektivnyy teploobmen v odnorodnoy srede (Heat and mass transfer. v. 1: Convective heat exchange in a homogeneous medium). Minsk, Nauka i tekhnika, 1965 93-103

TOPIC TAGS: Turbulent heat transfer, fluid flow, gas turbine, heat transfer coefficient

ABSTRACT: The article gives the results of an experimental determination of the mean values of the heat transfer coefficients on the end wall of an interblade channel. All measurements of the thermal and dynamic characteristics of the flow were made on the three central blades of the turbine and in the channels formed by them. The end walls of these three channels constituted heat absorbing surfaces cooled by water in a flow type calorimeter.

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The side, end, and lower walls of the calorimeter were covered with a layer of insulation which practically excluded heat transfer between the air medium around the calorimeter and the cooling water. The heat transfer coefficient was determined by the formula:

$$\alpha = \frac{Q}{F(t_g - t_w)}$$

where Q is the heat flux through the end wall; F is the surface of the end wall; t<sub>g</sub> is the mean temperature of the gas in the channel; and t<sub>w</sub> is the averaged surface temperature of the end wall. The distribution of the static pressure along the outlet of the profile and at the end wall of the interblade channel, as well as at a given distance from the inlet section of the cascade, were measured by a water-filled manometer. The total pressure was measured in the entrance to the accelerating convergent section by a conventional Prandtl tube. Experimental results are exhibited in several figures. For approximate calculations of the intensity of heat transfer on the end walls of interblade channels, these formulas are recommended:

$$\text{Nu} = C_{1st} Re^{0.8} \text{ at } Re < 5 \cdot 10^4$$
  
$$\text{and } \text{Nu} = C_{2nd} Re^{0.8} \text{ at } Re > 10^5$$

where C is a variable characteristic parameter. Orig. art. has 4 formulas and 5 figures.

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[06]

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ACC NR: AT6001356

SUB CODE: 20/  
21/ SUBM DATE: 31Aug65/ ORIG REF: 010/ OTH REF: 001/ ATD PRESS: 4193

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Card 3/3

L 24245-66 ENT(1)/ENP(m)/ETP(w)/ETC(f)/EPF(n)-2/ENG(m)/EWA(d)/ENA(1) WW/EM/CS

ACC NR: AT6006917 SOURCE CODE: UR/0000/65/000/000/0305/0312

61  
B+1

AUTHOR: Zysina-Molozhen, L. M.; Soskova, I. N.; Shapiro, I. G.

ORG: Leningrad Central Boiler and Turbine Institute (Tsentral'nyy kotloturbinnyy institut)

TITLE: Investigation of the turbulent boundary layer formed by the flow of a compressible gas around a plate, accompanied by heat transfer

SOURCE: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvii tel s potokami zhidkostey i gazov (Heat and mass transfer v. 2.: Heat and mass transfer in the interaction of bodies with liquid and gas flows). Minsk, Nauka i tekhnika, 1965, 305-312

TOPIC TAGS: turbulent boundary layer, convective heat transfer, gas flow, *compressible gas*

ABSTRACT: The aim of the article is stated to be a theoretical and experimental investigation of the effect on the structure of the turbulent boundary layer, in particular, on the thickness of the laminar sublayer, of the Mach number and the temperature factor, to evaluate their effect on the final result of calculations of the resistance of the plate, and to make more precise the initial hypotheses of the semi-empirical theory. The experimental investigations of the effect of the

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L 24245-66

ACC NR: AT6006917

temperature factor on heat transfer and surface resistance in a stream of compressible gas were carried out in the optical unit of a supersonic aerodynamic tube. The experiments were made over a range of the temperature factor from 1.0 to 2.2 at a Mach number of approximately 1.5 and a Reynolds number of  $10^7$ . The length of the working section was 0.5 meters. Results are exhibited in a series of curves. It was found that at values of the temperature factor substantially less than unity, it is necessary to take into account the dependence of the thickness of the laminar sublayer on the Mach number, and particularly on the temperature factor. At values of the temperature factor less than unity, the effect of the Mach number and the temperature factor on the turbulent transfer constants can in practice be neglected. When the Mach number is less than 3.0, this leads to a decrease in the resistance coefficient by not more than 20%. Orig. art. has: 5 formulas and 6 figures.

SUB CODE: 20/ SUBM DATE: 09Nov65/ ORIG REF: 004/ OTH REF: 005

Card 2/2 *dda*

ZYSINA-MOLOZHEN, L.M.; SHAPIRO, I.G. (Leningrad)

"Experimental investigation of the interaction between shock waves and the turbulent boundary layer".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.



ZYSINA-MOLOZHEN, L.M., doktor tekhn.nauk; POLYAK, M.P., inzh.

Programming of the calculation of temperature field distribution  
in tail cooled turbine blades. Energomashinostroenie 9 no.8:  
43-44, 48 Ag '63. (MIRA 16:8)  
(Gas turbines--Cooling)



Card 1/2

WILLIAM AND ELIZABETH BROWN, BOSTON, MASS. De Neglecting orig. art. has: 1 figure and 22 formulas.

ADDITIONAL INFORMATION: Spectralnyy kholodubirnyy institut im. I. I. Polzunova, Leningrad

ZYSINA-MOLOZHEN, L.M.

Calculating the thermal boundary layer in compressible gas flow.  
Inzh.-fiz. zhur. 5 no.6:21-26 Je '62. (MIRA 15:12)

1. Tsentral'nyy kotloturbinnyy institut imeni I.I. Polzunova,  
Leningrad.

(Gas flow)  
(Boundary layer)

38997  
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E194/E455

262122  
AUTHORS:

472  
Zysina-Molozhen, L.M., Doctor of Technical Sciences,  
Polyak, M.P., Engineer, Uskov, I.B., Engineer

TITLE:

Heat transfer in turbine blading

PERIODICAL:

Teploenergetika, no.7, 1962, 77-80

TEXT:

The nature of gas flow between gas turbine blades is such that the heat-transfer coefficient can assume very different values at different places and this can give rise to unexpected temperature gradients in the blades. Only approximate methods of calculation are available for assessing this effect in cooled blades. Local values of the heat-transfer coefficient were calculated for root, middle and tip sections of a twisted blade and considerable variations were found both across and along the blades. The temperature distribution in the average heat-transfer calculated by two methods, one employing an average heat-transfer coefficient and the other dividing the blade up into four sections each with its own value of heat-transfer coefficient. The differences between the results obtained by the two methods were particularly great at high rates of cooling; thus at a rate of

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Heat transfer in turbine blading

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40 kcal/hour the difference near the blade root is 20°C; at 200 kcal/hour it is 95°C. A still greater difference would be found if the blade were divided into smaller sections. The calculation confirms that blade root cooling influences the blade temperature distribution only in the bottom quarter of the blade. The influence of cooling is important at heat transfer rates above 100 kcal/hour; here the calculation based on average heat-transfer coefficient is inaccurate and overestimates the benefits of cooling. In calculating heat transfer from the blade ends the usual boundary layer methods are not strictly valid because of interaction between the boundary layers of the blade end and those of the adjacent stationary wall. However, analysis shows that this interaction has little effect on heat transfer unless the blade pitch and boundary layer thickness are commensurate which, in practice, can occur only in rather special cases. To check the calculations tests were made in a flow of air at 200°C with stationary flat rows of blades water-cooled near the roots. Temperature and velocity distributions were measured and agreement with theory was good; in particular, the effect of interaction

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Heat transfer in turbine blading

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between boundary layers was negligible. There are 5 figures.

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut  
(The Central Boiler and Turbine Institute)

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ZAWADZKI, Jerzy, mgr.; ZYSK, Jan, mgr., inż.

Removal by washing of the rests of the SH type domestic neutral hardening salts from hardened objects. Przegl mech 20 no.21:650-654 '61.

1. Instytut Mechaniki Precyzyjnej, Warszawa.

(Metals) (Salts)

ZYSK, J.; KALETA, Z.; SZAMBORSKI, J.

Laboratory chamber for exposure small animals to low pressure with  
the apparatus for blood sampling. Acta physiol. polon. 4 no.1-2:69-75  
1953.  
(CJML 25:4)

1. Of the Institute of General and Experimental Pathology (Head--Prof.  
J. Walawski, M.D.) of Warsaw Medical Academy and of the Central Institute  
of Research on Aviation Medicine.

ZYSK, J.

Thermal finishing of files. Pt. 1. (To be cont'd). p. 271.

MECHANIK. Warszawa, Poland. Vol. 12, nos. 1-2, 7-9, 12; Jan.-Feb., July-Sept.,  
Dec. 1957.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960.  
Uncl.

ZYSK, Jan

Influence of the magnetic field during thermal working of steel  
on its mechanical properties. Inst mech precyz ll no.39:27-35  
'63.

ZYSEK, J.

"Heat Treatment of High-Speed Cutting Tools Made of Low-Content Wolfram Steel, SW9", (To be contd.) p. 287, (MECHANIK, Vol. 27, No. 8, Aug. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (BELL), IC, Vol. 4, No. 5, May 1955, Uncl.

ZYSK, J.

Thermal finishing of files. (Conclusion) p.305.  
MECHANIK (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich) Warszawa  
Vol. 28, no. 8, Aug. 1955

So. East European Accessions List

Vol. 5, No. 9

September 1956

ZMIHORSKI, Edward; ZYSK, Jan

Selection of optimum heat treatment parameters for thin flat springs  
based on fatigue tests. Inst mech precyz 12 no.2:5-11 '64.

ZYSK, J.

ZYSK, J. KALETA, Z. SZAMBORSKI, J.

"Changes of the Amount of blood sugar in the state of anoxia." p. 297 (Acta Physiologica Polonica. Vol, 4, no. 4, 1953 Warszawa.)

SO: Monthly List of East European Accessions, Vol. 3, no. 6  
Library of Congress, June 1954, Uncl.



ZYSK, Jerzy; WITKOWSKI, Jan.; ZBIGNIEW, Kaleta.

[No translation] Acta physiol.polon 6 no.4:421-440 1955.

1. Z Wojskowego Instytutu Naukowo-Badawczego i Doswiadczalnego  
Medycyny Lotniczej.

(BLOOD,

alcohol, eff. of altitude in non-drinking subjects, Widmark  
test (Pol))

(ALCOHOLS, in blood,

eff. of altitude in non-drinking subjects, Widmark test (Pol))

(ALTITUDE, effects,

on blood alcohol in non-drinking subjects, Widmark test (Pol))

ZYSKA, Alfred, inż.

Deinsting of the ore agglomerating plant in the Kosciuszko  
Steel Works. Gosp paliw 11 Special issue no.(95):19-21 Ja '63.

1. Huta Kosciuszko, Chorzow.

ZYSKA, Alfred, inz.

Dedusting of the ore agglomerating plant in the Kosciuszko Steel Works.  
Gosp paliw 11 Special issue no.(95):19-21, Ja '63.

1. Huta Kosciuszko, Chorzow.

ZYSKA, B.

"Safety and Hygiene in the Work of Artificially Impregnating Pit Props" p. 47  
(Wlasomosci Gornicza, Vol. 4, No. 2, Feb., 1953, Katowice)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,  
February, 1954, Uncl.

SIDA, D.

"Characterizing impregnators for pitwood." Biuletyn. p. 8. (Przegląd Gorniczy, Vol. 10, no. 3, Mar 54, Stalinograd)

S0: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Uncl

ZYSKA, B.

Influence of the conditions of saturation on the ability of pit props to become saturated with moisture. Biuletyn. p. 14. (PRZEGLAD GORNICZY, Vol. 10, No. 6, June 1954, Stalinogrod, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

45KA, B

1971  
The Central Intelligence Agency is a member of the  
National Security Agency

ZYSKA, B.



ZYSKA, B.

Research on the supporting strength of wooden timbering. Biuletyn.  
P. 25

Trends in timbering. Biuletyn. P. 27  
PRZEGLAD CORNICZY. (Instytut Weglowy) Stalinograd.  
Vol. 11, no. 9, Sept. 1955

SOURCE: EEAL LC Vol. 5, no. 7, July 1956

ZYSKA, B.

The usefulness of the magnesium fluosilicate of Polish Production for impregnating mine timbers. (Supplement) p.33  
(PRZEGLAD GORNICZY, Vol. 12, No. 12, Dec. 1956, Stalinograd, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

ZYSKA, B.

The supply of timber for the coal industry in the years to come. p.134.

(PRZEGLAD GORNICZY. Vol. 13, No. 3, Mar. 1957. Warszaw, Poland)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 10, October 1957. Uncl.

ZYSKA, Bronislaw

State and development prospects of timber impregnation in the  
Polish coal mining industry. Sylwan 104 no.4:45-53 Ap '60.

1. Pracownia Impregnacji Drewna, Pion Zakladow Gorniczych,  
Glowny Instytut Gornictwa, Katowice.

ZYSKA, Bronislaw, dr., inż.; BILINSKI, Alfred, mgr., inż.

Tests on the load bearing capacity of thin wood props. Przegl gorn  
17 no.9:Biuletyn 21-24 S '61.

ZYSKA, Bronislaw, dr. inz.; KWIATEK, Jerzy, mgr. inz.

An analysis of the possibilities of reducing the diameter of short wooden props. Przegl gorn 18 no.6:Suppl.:Biul Glow  
Instyt Gorn 13 no.2:16-20 '62.

ZYSKA, Bronislaw

Studies on the fungicidal limit value of silicofluorides  
in wood. Prace nauk roln i lesn 15 no.2:147-199 '63.

1. Glowny Instytut Gornictwa, Katowice, i Katedra Chemicznej  
Technologii Drewna, Wyzsza Szkola Rolnicza, Poznan.

ZYSKA, Bronislaw, dr inz.

Biological corrosion in conveyer belts. Praegl gorn 20  
no.10:Suppl. Biul Glow inst gorn 14 no.3:28-32 '64.



ZYSKA, J.

"Control of underground manpower deployment" by G. Blackmore.  
Reviewed by J. Zyska. Przegl gorn 20 no.10:421-424 0 '63.

ZYSKIN, Aleksandr Vasil'yevich; AZARNINA, N.I., red.; LEUSHCHENKO,  
M.L., tekhn. red.

[Calorifiers and air preheaters in construction] Kalorifery i  
vozdukhopodogrevateli v stroitel'stve. Kiev, Gos. izd-vo lit-ry  
po stroit. i arkhitekt. USSR, 1961. 72 p. (MIRA 15:3)  
(Air preheaters)

ZYSKIN, A.V., inzh.

Methods for joining plastic pipes. Mont. i spets. rab. v stroi. 22 no.11:  
27-30 N°60. (MIRA 13:10)

1. NIIVTI Akademii stroitel'stva i arkhitektury USSR.  
(Pipe, Plastic)

ZYSKIN, A.V., inzh.; ZAGONYAYLO, I.S.

Turning conveyor for assembling cast iron sewer units. Mont. i spets.  
rab. v stroi. 23 no.3:24-25 Mr '61. (MIRA 14:2)

1. NIIVTI Akademii stroitel'stva i arkhitektury USSR.  
(Conveying machinery) (Sewer-pipe)

VARAVITSKIY, I.B., kand.tekhn.nauk; DOROFYEV, I.Ye., inzh.; ZYSKINA, Ya.M.,  
inzh.; LAKHMANLOS, A.I., inzh.; LEVNER, I.A., inzh.; TRACHUK, Y.P.,  
inzh.; TUGHKOVSKIY, P.M., inzh.

Use of a small-sized air preheater in burning Ekibastuz coal.  
Elek. sta. 33 no.5:7-12 My '62. (MIRA 15:7)  
(Air preheaters) (Furnaces)  
(Electric power plants)

ZYSKO, A. P., Candidate of Med Sci (diss) -- "Anticoagulants in the prophylaxis of experimental atherosclerosis". Moscow, 1959. 12 pp (Acad Med Sci USSR), 200 copies (KL, No 21, 1959, 119)

ZYSKO, A.P.

Effect of heparin on the development of experimental atherosclerosis  
[with summary in English]. *Biul. eksp. biol. i med.* 45 no. 5:29-33  
My '58 (MIRA 11:6)

1. Iz Instituta terapii (dir. - deystvitel'nyy chlen AMN SSSR A.L. Myashnikov) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR A.L. Myashnikovym.  
(ARTERIOSCLEROSIS, experimental,  
eff. of heparin (Rus))  
(HEPARIN, effects,  
on exper. arteriosclerosis (Rus))

ZYSKOVICH, M.Ya., red.chasti; KHAVIN, B.N., red.izd-va; TEMKINA,  
Ye.L., tekhn.red.

[Production standards for planning work paid for according to  
a piece-rate system] Normy vyrabotki na proektnye raboty,  
oplachivaemye sdel'no. Moskva, Gos.isd-vo lit-ry po stroit.,  
arkhit. i stroit.materialam. Pt.12. [Oil and gas refining,  
production of hydrogen and oxygen, gas economy] Pererabotka  
neftegazov, proizvodstvo vodoroda i kisloroda, gazovoe  
khoziaistvo. 1558. 63 p. (MIRA 12:7)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennaya planovaya  
komissiya.  
(Petroleum--Refining) (Gases)



ATAYEV, Sergey Sergeyevich; ZYSMAN, Aron Isaakovich; KAMENSKIY, Vladimir Georgiyevich; MOROGOVSKIY, Bentsian Moiseyevich; SAGALOVICH, Iosif Aronovich; GANDZHUNTSEV, I.M., nauchnyy red.; STRATILATOVA, K.I., red.; NESMYSLOVA, L.M., tekhn.red.; DORODNOVA, L.A., tekhn.red.

[New developments in the construction of apartment houses in White Russia] Novoe v zhilishchnom stroitel'stve Belorussii. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1961. 58 p. (MIRA 15:2)

(White Russia--apartment houses)

ZYSMAN, A. I., Candidate Tech Sci (diss) -- "Investigation of the effect of the properties and technological features of lime-sand concrete on the structural forms for the parts of wall enclosures". Minsk, 1959. 12 pp (Beloruss Polytech Inst im I. V. Stalin), 150 copies (KL, No 23, 1959, 166)

1ST AND 2ND ORDERS      PROCESSES AND PROPERTIES INDEX

27

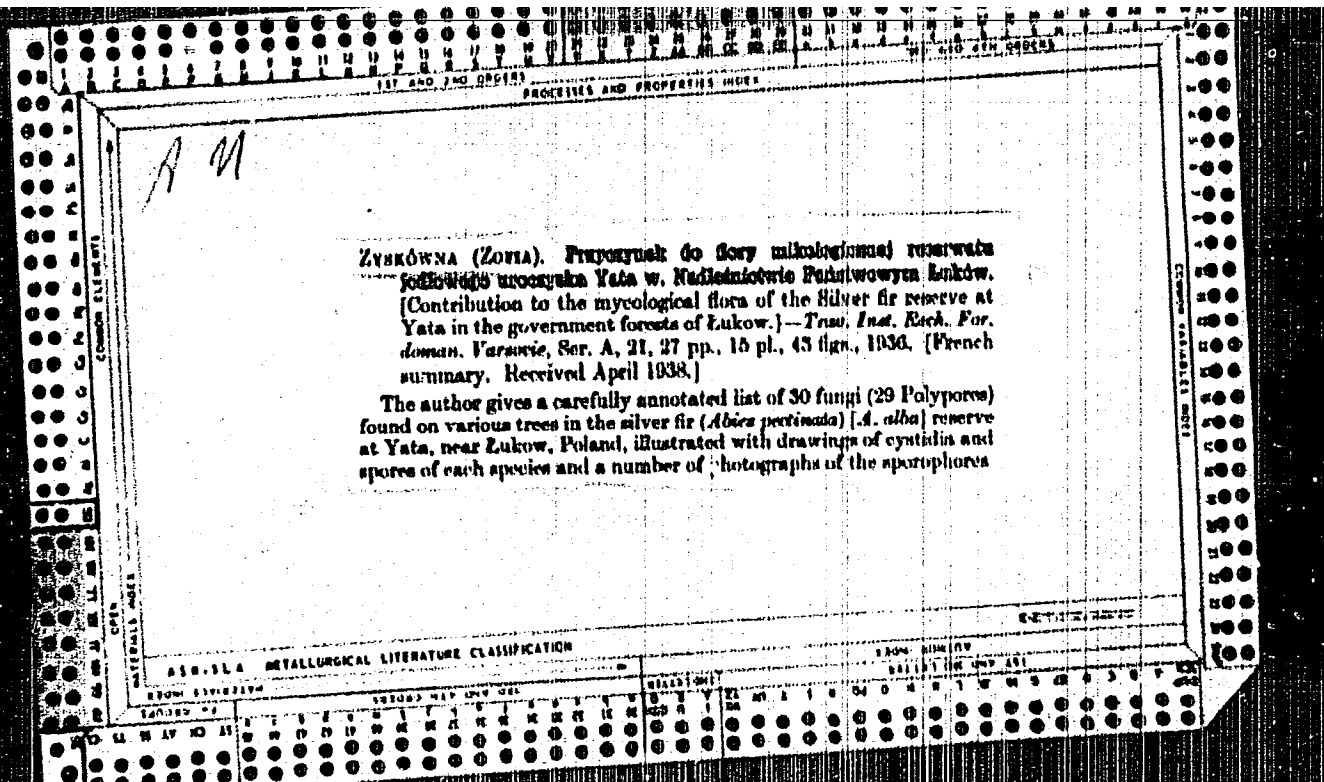
B

*Synthesis of Fatty Acids from Petroleum Fractions.*  
 V. Zyskovsky, *Journal of Applied Chemistry (U.S.S.R.)*, v. 19, no. 4, 1946, p. 428-434. (In Russian.)  
 Under certain conditions, destructive distillation of petrolatum using superheated steam results in formation of low molecular weight finely crystallized paraffins.

A.S.N.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX      COMMON ELEMENTS      COMMON VARIABLE INDEX

EXPERIMENTAL PROCEDURE      REFINING



ZYSMAN, A.

Potentials of frame designs in modern housing construction.  
Zhil. stroi. no.5:3-4 '63. (MIRA 16:7)

1. Glavnyy konstruktor proyektного instituta Minskproyekt.  
(Structural frames)  
(Apartment houses—Design and construction)

ATAYEV, S., kand.tekhn.nauk; ZYSMAN, A., kand.tekhn.nauk; TONoyAN, A., inzh.;  
MIKHAYLOVSKIY, D., inzh.

Apartment houses made of prefabricated rooms. Zhil. stroi. no.7:24-26  
Jl '61. (MIRA 14:8)  
(Minsk--Buildings, Prefabricated) (Apartment houses)

VAS'KOVICH, M., student; ZYSMAN, A., dotsent, nauchnyy rukovoditel'

Using silicate concrete in planning and building in White Russia.  
Sbor.nauch.trud.Bel.politekh.inst. no.81:150-156 '59.  
(MIRA 13:5)

(White Russia---Concrete blocks)

VOINOV, A.P., professor; ZYSMAN, A.I., dotsent; KULIN, V.I.; BELYAYEV,  
S.V., arkhitektor; BELSHCHIK, N.P., inzh.; VOINOV, V.A.

New designs of precast apartment houses built of spatial elements.  
Sbor.nauch.trud.Bel.politekh.inst. no.81:15-60 '59. (MIRA 13:5)

(White Russia--Apartment houses)  
(Precast concrete construction)



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ZYSMAN, A.I.; VOINOV, A.P., prof., retsenzent; CHECHKO, E.I.,  
red.; KUZ'MENOK, P.T., tekhn.red.

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in-ta im. I.V.Stalina, 1960. 194 p. (MIRA 13:8)

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Experimental equipment for prefabricating room units of apartment  
houses to be built in the White Russian S.S.R. Stroi.i dor.  
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[Molding wall elements using lime-sand concretes] K voprosu  
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(White Russia--Retail trade--Finance)

(Saratov Province--Retail trade--Finance)

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1ST AND 2ND ORDERS      PROCESSES AND PROPERTIES INDEX

BC

132  
8

Micrograms for the diffusion process in some glass electrodes.  
In: *Ann. (Nouv. chim.)*, 1931, (v1), 26, 243-244. Rules for co-  
ordinating the work of diffusion batteries are given. H. Tachon.

ADD. 5L8 METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

Common Elements

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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418  
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POLAND

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COUNTRY : POLAND  
CATEGORY : Cultivated Plants - Industrial, Oleiferous, Sugar  
ARS. JUR. : RZhBiol., No.14, 1958, No.63495  
AUTHOR : Zytkowicz, I  
INST. : -  
TITLE : Agricultural Technique for Planting Flax in the Summer  
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ABSTRACT : No abstract

Card: 1/1

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