Fourier transformations in ...

24401
Z/026/61/006/003/002/003
D256/D304

It is also shown that the Fourier transformation is a generaliza-
tion of the classic Fourier transformation. Next comes the solu-
tion of the problem: division of a transformation by a polynom.
The results obtained so far are used in the solving integro-diffe-
rential-equation systems, having distributions on the right hand
side of the equations. The system of solution for such a system of
equations is given, and the rule on the constant dependence of the
solutions on the right hand side of the equation is proved. It is
then shown that reactions of a linear physical system can be de-
termined, if the disturbances act on the whole time axis $(-\infty; \infty)$;
the determination of reaction by means of a transfer function is
also shown. The article concludes with some concrete examples. The
following Lemmas are given:1) Let $n \leqslant 1$ be a whole number; there
exist functions $\psi_o(s)$, $\psi_1(s)$, ..., $\psi_{n-1}(s) \in Z$, so that $\psi_i^{(k)}(0) =$
$= 0$ for $k = 1$, $\psi_i^{(i)}(0) = 1$; i, k = 0, 1, ... n - 1. (A system like
ψ_o, ψ_1, ... ψ_{n-1} for a given n is called a "normal system").

Card 2/4

Fourier transformations in ...

24401
Z/026/61/006/003/002/003
D256/D304

2) Let $P(s) \neq 0$ be a polynom, having no root α, and let $g =$

$$= \sum_{i=0}^{k} c_i \delta_\alpha^{(i)}.$$ There exist numbers B_0, B_1 ... B_k so that $P(s) \sum_{i=0}^{k}$

$B_i \delta_\alpha^{(i)} = g$. 3) Let c_{ik} be numbers, α_i different numbers; if the

equation $\sum_{i=1}^{m} \sum_{k=0}^{ni} c_{ik} \delta_i^{(k)} = 0$ be fulfilled in Z'; then $c_{ik} = 0$

for all values of i, k. 4) Let $U(s)$ be a square matrix of the n-th order, whose elements are compact analytical functions, and let $d(s) = d e t U(s)$; if α is k times the root $d(s)$, $0 \leq k \leq n$, then the value of the matrix $U(\alpha)$ is not less than n - k. One concrete example is shown in Fig. 1 the problem being to find the value of the voltage e across resistor R, if a voltage f K' acts on the input. There are 1 figure, and 3 Soviet-bloc references.
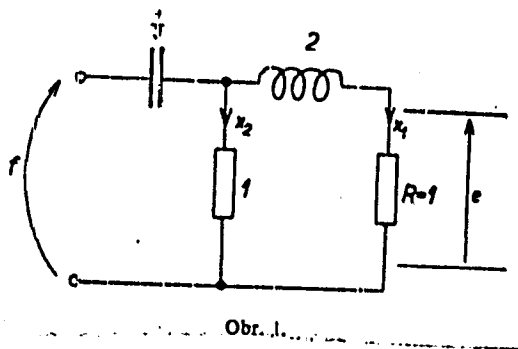
Card 3/4

24403

Fourier transformations in ...   Z/026/61/006/003/002/003
D256/D304

ASSOCIATION: Matematický ústav ς AV Praha (Mathmatical Institute, Czechoslovak AS, Prague)

SUBMITTED: May 5, 1960

Fig. 1.

Obr. 1.

Card 4/4

DOLEZAL, Vaclav, C.Sc., Inz.

On the revival of Fourier's transformation by means of the distribu-
tion theory. Acta techn Cs 6 no.4:335-355 '61.

1. Ceskoslovenska akademie ved, Praha, Zitna 25.

(Fourier's series)

S/044/62/000/006/052/127
B177/B102

AUTHOR: Doležal, Václav

TITLE: A class of linear operators

PERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1962, 104, abstract
               6B442 (Časop. pěstov. mat., v. 86, no. 2, 1961, 200 - 232)

TEXT: A certain class of linear operators is studied which translate a
Schwartz distribution space, given for (-∞, 0), into itself. The results
are used to solve a specific type of integro-differential equations.
[Abstracter's note: Complete translation.]

Card 1/1

3&547

Z/C42/62/000/006/002/003

E140/E435

9.3230

AUTHOR: Doležal, Václav, Engineer, Candidate of Sciences

TITLE: The solution of certain parametric systems by means of the generalized Thevenin's theorem

PERIODICAL: Elektrotechnicky časopis, no.6, 1962, 343-349

TEXT: The concepts of impedance and admittance are generalized to parametric networks.   It is shown that not all parametric networks have both admittance and impedance.   One that does is termed "regular".   A parametric network composed exclusively of series and parallel elements R_i, L_k and C_1, where $R_i(t)$, $L_k(t)$ and $C_1(t)$ are smooth functions of time and positive for all $t \geq 0$, is regular.   Further, the author defines the concept I_k-normal parametric n-port, when the current i_k flowing through the k-th pair of terminals P_k is subject to the condition

$$i_k = \sum_{i=1}^{n} A_i e_i \qquad (1)$$

where A_i are admittance operators.   With these definitions, the

Card 1/2

The solution of certain ...

author presents the generalized Thevenin's theorem in the following form. Let R be a parametric n-port $(n \geq 2)$, 3 a parametric 1-port, and let the following conditions be valid:

1. R is I_n-normal;
2. 3 is regular;
3. 3_n is regular (3_n is R with all pairs of terminals short-circuited except P_n)
4. The parallel connection of 3 and 3_n is a regular 1-port.

Let e^x be the open-circuit voltage on P_n if the voltages e_1, e_2, ..., e_{n-1} act on P_1, P_2, ..., P_{n-1}; let further u be the voltage on P_n if P_n is loaded by the 1-port 3 under the same conditions. Then if the emf e^x act on the series combination 3_n and 3, the voltage u will appear across 3. A proof is given in the author's previous paper (Aplikace matem., no.2, 1962). The article closes with a simple example to illustrate the application of the theorem. There are 2 figures.

ASSOCIATION: Matematický ústav ČSAV (Mathematical Institute ČSAV)

Card 2/2

DOLEZAL, Vaclav, inz., C.Sc. (Praha 1, Zitna 25)

Generalization of Theveninproposal and its application. Aplikace mat
7 no.2:104-115 '62.

1. Matematicky ustav, Ceskoslovenska akademie ved.

DOLEZAL, Vaclav, inz., C.Sc.; PROKOP, Josef; VOREL, Zdenek, inz., C.Sc.

The theory of graphs in the analysis of electrical networks.
Aplikace mat 7 no.5:331-343 '62.

1. Matematicky ustav, Ceskoslovenska akademie ved, Praha 1,
Zitna 25 (for Dolezal and Vorel). 2. Vyzkumny ustav
telekomunikaci, Praha 10 - Strasnice, Tretchosticka (for
Prokop).

DOLEZAL, Vàclav, inz., C.Sc.

On the existence of admittance or impendance of parametric
twopoles. Aplikace mat 7 no.6:450-456 '62.

1. Matematicky ustav, Ceskoslovenska akademie ved, Zitna 25,
Praha 1.

DOLEZAL, Vaclav, inz., C.Sc.

On star-triangle equivalence. Aplikace mat 7 no.6:457-462
'62.

1. Matematicky ustav, Ceskoslovenska akademie ved, Zitna 25,
Praha 1.

DOLEZAL, V.; OSIOWSKI, J.

Some properties of the transfer matrix of a linear network.
Bul Ac Pol tech   10   no.9:571-573 '62.

1. Institute of Mathematics, Czechoslovac Academy of Sciences,
Praha, and Department of the Theory of Communications, Institute
of Fundamental Technical Problems, Polish Academy of Sciences,
Warsaw. Presented by J.Groszkowski.

DOLEZAL, Vaclav (Praha 1, Zitna 25)

On certain linear operators. Cas pro pes mat 87 no.2:198-224
'62.

1. Matematicky ustav, Ceskoslovenska akademie ved.

DOLEZAL, Vaclav; VOREL, Zdenek

The theory of Kirchhoff networks. Cas pro pes mat 87 no.4:440-476
O '62.

1. Matematicky ustav, Ceskoslovenska akademie ved, Praha 1, Zitna
25.

DOLEZAL, Vaclav (Praha)

"Fourier transforms and convolutions for the experimentalist" by
R.C. Jennison. Reviewed by Vaclav Dolezal. Cas pro pes mat 87
no.4:497 O '62.

2/026/62/007/006/003/005
D234/D308

AUTHOR: Doležal, Václav

TITLE: Existence of admittance or impedance of parametric
two-terminal networks

PERIODICAL: Aplikace matematiky, v. 7, no. 6, 1962, 450-455

TEXT: The author proves that a parametric two-terminal network
consisting of R, L, C elements has both an admittance A and an im-
pedance Z if all R, L, C are real positive smooth functions of time
between 0 and ∞. For T and Π links formed from three such networks

$$
A = \begin{bmatrix} A_1(A_1+A_2+A_3)^{-1} \ (A_2+A_3); & -A_1(A_1+A_2+A_3)^{-1} \ A_2 \\ -A_2(A_1+A_2+A_3)^{-1} \ A_1; & A_2(A_1+A_2+A_3)^{-1} \ (A_1+A_3) \end{bmatrix}
$$

Card 1/3

Existence of admittance ...

$$Z = \begin{bmatrix} Z_1 + Z_3; & Z_3 \\ Z_3; & Z_2 + Z_3 \end{bmatrix}$$

and

$$A = \begin{bmatrix} A_1 + A_3; & A_3 \\ A_3; & A_2 + A_3 \end{bmatrix}$$

$$Z = \begin{bmatrix} Z_1(Z_1+Z_2+Z_3)^{-1} (Z_2+Z_3); & -Z_1(Z_1+Z_2+Z_3)^{-1} Z_2 \\ -Z_2(Z_1+Z_2+Z_3)^{-1} Z_1; & Z_2(Z_1+Z_2+Z_3)^{-1} (Z_1+Z_3) \end{bmatrix}$$

respectively. There is 1 figure.

Card 2/3

Existence of admittance ...   Z/026/62/007/006/003/005
                                D234/D308

ASSOCIATION: Matematický ústav ČSAV (Institute of Mathematics,
              Czechoslovak AŠ)

SUBMITTED: September 11, 1961

Card 3/3

Z/026/62/007/006/004/005
D234/D308

AUTHOR: Doležal, Václav

TITLE: Star-triangle equivalence

PERIODICAL: Aplikace matematiky, v. 7, no. 6, 1962, 457-461

TEXT: The author studies the conditions of equivalence of stars
and polygons formed by parametric two-terminal networks. It is
proved that for every star there is an equivalent polygon if the
admittances of the networks of the star form a subcommutative sys-
tem (a system of regular operators is called subcommutative if

$$X_\alpha X_\beta^{-1} X_\gamma = X_\gamma X_\beta^{-1} X_\alpha$$

for any three operators in it). If a triangle fulfills the same
condition there is a 3-star equivalent to it. There are 2 figures.

Card 1/2

Star-triangle equivalence

Z/026/62/007/006/004/005
D234/D308

ASSOCIATION: Matematický ústav ČSAV (Institute of Mathematics, Czechoslovak AS)

SUBMITTED: November 13, 1961

Card 2/2

L 13244-63

IJP(C)

EWT(d)/FCC(w)/BDS   AFFTC

(z)

S/044/63/000/003/027/047

AUTHOR: Doležal, Václav

TITLE: On certain linear operators

5/

PERIODICAL: Referativnyy Zhurnal, Matematika, no. 3, 1963, 63, Abstract 3B294
(Casop. Pěstov. Mat., v. 87, no. 2, 1962, 198-224; Czech, summary
in Russian and German).

TEXT: The article is devoted to an investigation of a certain class of
integro-differential operators in generalized D_n function spaces where the D_n
are derivatives of the nth order of functions summed over the entire axis and
vanishing at $(-\infty, 0)$. Let the generalized function be $f = F^{[n]}$, where $F(x)$
$\in L_1$ and $F(x) = 0$ when $x < 0$. The operators considered in this article are
generated by operators of the form

$$Af = \sum_{i=0}^{m} a_i F^{(i)} + \int_0^t K(x, t) F(x) \, dx (f = F^{[n]}).$$

Card 1/2

L 13244-63
On certain linear operators   S/044/63/000/003/027/047

where the a_i is a function differentiated a sufficient number of times with
the aid of addition and superposition. The properties of the introduced
operators are investigated; inverse operators are constructed. A norm is
introduced in D_n space by the equality

$$\|f\| = \int_0^l |F(\tau)| \, d\tau \quad (f = F^{(n)}).$$ This permits one to regard the introduced

operators as linear bounded operators and to construct the inverse operator in
an approximate manner.

[Abstracter's note: Complete translation.]

Card 2/2

DOLEZAL, Vaclav, ins., C.Sc.; VOREL, Zdenek, ins., C.Sc.

Some basic properties of Kirchhoff networks. Aplikace
mat 8 no.1:30-54 '63.

1. Matematicky ustav, Ceskoslovenska akademie ved,
Praha 1, Zitna 25.

DOLEZAL, Vaclav

On an approximate construction of inverse operators. Cas
pro pest mat 88 no.2:173-177 '63.

1. Matematicky ustav, Ceskoslovenska akademie ved, Praha 1,
Zitna 25.

DOLEZAL, Vaclav, inz., CSc.

A bound for the damping coefficient of RC- and RL- networks.
Aplikace mat 8 no.5:341-355 '63.

1. Matematicky ustav, Ceskoslovenska akademie ved, Praha 1,
Zitna 25.

DOLEZAL, Vaclav; VOREL, Zdenek

Periodic solutions of Kirchhoff's networks.   Cas pro pest
mat 88 no.4:479-491   '63.

1. Matematicky ustav, Ceskoslovenska akademie ved. Praha 1,
Zitna 25.

DOLEZAL, Vaclav, inz., CSc.; VOREL, Zdenek, inz., CSc.

Periodic states in Kirchhoff networks. Aplikace mat 9 no.1: 31-38 '64.

1. Matematicky ustav, Ceskoslovenska akademio ved, Praha 1, Zitna 25.

DOLEŽAL, Vaclav

The existence of a continuous basis of certain linear subspace of E_x which depends on a parameter. Cas pro pest mat 89 no.4:466-469 O '64.

Some properties of noncanonical systems of linear integrodifferential equations. Cas pro pest mat 89 no.4:470-491 O '64.

1. Institute of Mathematics of the Czechoslovak Academy of Sciences, Prague 1, Zitna 25. Submitted December 19, 1963.

DOLEZAL, Vaclav, Ina. CSc.

Some fundamental properties of electrical networks with
time-varying elements. Aplikace mat lo no.1:31-48 '65.

1. Institute of Mathematics of the Czechoslovak Academy of
Sciences, Prague 1, Zitna 25. Submitted March 23, 1964.

DOLEZAL, V.; HAUSNER, M.

Our experience with individual and group psychotherapy with the aid
of LSD. Activ. nerv. sup. 4 no.2:241-242 '62.

1. I ustav lekarske chemie fakulty vseobecneho lekarstvi Karlovy
university v Praze, Psychiatricke oddeleni polikliniky fakulty
vseobecneho lekarstvi Karlovy university v Praze.

(LYSERGIC ACID DIETHYLAMIDE ther)
(PSYCHOTHERAPY)   (PSYCHOTHERAPY GROUP)

CZECHOSLOVAKIA

M. HAUSNER and V. DOLEZAL, Psychiatric Department of Medical School
Polyclinic (Psychiatricke oddeleni fakultni polikliniky) and First
Department for Medicinal and Forensic Chemistry (I. ustav pro chemii
lekarskou a soudni) Faculty of General Medicine, Charles University,
Prague.

"Catamnestic Evaluations of Effects of LSD Psychotherapy."

Abstract : Tests with LSD in neurosis rehabilitation clinic: 11
controls, 11 receiving individually 100 gamma LSD, 11 receiving
'collectively' 50 gamma; 5 on placebo. All improved, especially those
on 100 gamma. Authors consider drug valuable in the context of all
other proved psycho- and pharmaco-therapeutic measures. Graph, 1
Western and 1 Czech reference.

1/1

xn

HAUSNER, M.; DOLEZAL, V.; SAPOSNIKOVA, O.

Various psychodiagnostic testing methods during psychotherapy using LSD. Activ. nerv. sup. 5 no.2:218-219 My '63.

1. Psychiatricke oddeleni fakultni polikliniky, Praha - I ustav pro chemii lekarskou a soudni fakulty vseobecneho lekarstvi KU, Praha.
        (PSYCHOTHERAPY)   (LYSERGIC ACID DIETHYLAMIDE)
            (PROJECTIVE TECHNICS)   (PSYCHOSES, TOXIC)

CZECHOSLOVAKIA

H. HAUSSLER, V. DOLEZAL and H. JUNOVA, First Department of Medicinal and Forensic Chemistry, Faculty of General Medicine of Charles University, and Psychiatric Department of Medical School Polyclinic, Prague.

"Evaluating Effect of Psychopharmaca in Outpatient Psychiatric Practice."

Abstract : Brief schematic plan for evaluation of such drugs - patients' own comments spontaneous and structured; micro- (physiologic and psycho-logic) and macro- (psychologic and clinical) behavior, general synthesis. A questionnaire, "N-5" is discussed briefly as used in a manner so as to get most reliable and valid response data. Table, 2 Czech references.

1/1

CZECHOSLOVAKIA

HAUSNER, M; DOLEZAL, V.; Faculty of General Medicine-Charles
University Prague; Psychiatric Clinic (Dir. Prof. V.Vondracek
M.D., D. Sc.); Outpatient Department (Head: Asst. Prof. F. Kno-
bloch M.D., C. Sc.) ; First Department of Medical Chemistry and
Toxicology (Dir. Prof. K. Kacl M.D., D. Sc.).

"Effects of Imipramine Upon Various Mental Syndromes in Ambula-
tory Treatment."

Abstract:(Authors' English abstract modified) 20 outpatients
were treated with imipramine and their cases followed from a
period of 3 months to 2 years. In "vital" depressions syndromes
of depression and anxiety are affected within 2 weeks. In old
age decrease appears later. Neurasthenic and autonomic syndro-
mes increase during 3rd and 4th week, decrease subsequently.
In depressive neuroses Imipramine without psychotherapy is not
adequate. 3 Figures, 3 Tables, 3 Western, 4 Czech references.

1/1

DOLEZAL, V.; PIPAL, M.

Alteration of respiratory functions in man by acute starvation.
Bratisl. lek. listy 43 no.4:201-209 '63.

1. Ustav leteckeho zdravotnictvi, Praha.
    (RESPIRATORY FUNCTION TESTS)   (STARVATION)
                    (BASAL METABOLISM)

CZECHOSLOVAKIA
HAUSNER, M.; DOLEZAL, V.; Clinic of Psychiatry at the Faculty
of General Medicine at Charles University /Psychiatricka Klini-
ka Fakulty Vseobecneho Lekarstvi KU_/, Prague; Institute for
Medicinal and Forensic Chemistry at the Faculty for General Med-
icine at Charles University /Ustav pro lekarskou a soudni Che-
mii Fakulty Vseobecneho Lekarstvi KU_/, Prague.

"Practical Experience with Hallucinogens in Psychotherapy."

Prague, Ceskoslovenska Psychiatrie, Vol 59, No 5, 1963, pp 328-
335

Abstract:The authors describe therapeutic mechanism, techniques,
indications, contraindications, and complications experienced
during individual and group psychotherapy applied to patients
who were under the influence of hallucinogens (LSD). Advantages
and disadvantages of this method are discussed. Best results
were obtained when LSD was used in combination with individual
interviews for patients residing in the therapeutic community.
Six paintings by patients show how inner conflicts are relieved
and expressed in an artistic way.
6 Figures, 6 Western, 6 Czech references.

1/1

L 10399-66   EWT(d)   IJP(c)
AM5024746   Monograph   CZ/
                                                                             40
Doležal, Václav   B+1

Dynamics of linear systems.   Prague, NCAV, 1964. 224 p. illus.,
   biblio., index.

TOPIC TAGS: linear system, function theory, Schwartz distribution,
   linear dynamic system, network theory

PURPOSE AND COVERAGE: This book presents a general and systematic
   analysis of linear dynamic systems with lumped elements. Schwartz
   distributions are used as a general tool for solving linear system
   problems. Systems with constant and time-variable elements are
   considered; the former are solved by using Laplace transforms, and
   the latter by means of certain operators. Since the behavior of
   physical systems with lumped elements is described by a system of
   integro-differential equations, the analysis of such systems is the
   main topic of the book. The last chapter is devoted to investi-
   gating the properties of general linear systems and the generali-
   zation of some theorems of classical network theory. The book

Card 1/3

L 10399-66
AM5024746

O

is intended primarily for electrical and mechanical engineers
familiar with the fundamentals of analysis, Laplace transforms,
the theory of functions of a complex variable, and higher algebra.

TABLE OF CONTENTS [abridged]:

Card 2/3

L 10399-66
AMS024746

0

ments -- 113

Ch. VI.   General properties of m-poles and n-ports -- 188

Bibliography -- 220

Index -- 222

SUB CODE: MA./ .   / SUBM DATE: 0000064/ ORIG REF: 002/

OTH REF: 033

Card 3/3

L 29523-66   RO

ACC NR: AP6020020   SOURCE CODE: CZ/0079/65/007/003/0303/0305

AUTHOR: Dolezal, V. (Prague); Hausner, M.   2L
                                                                        B

ORG: First Institute for Medical and Forensic Chemistry, Faculty of Medicine, Charles University, Prague; Psychiatric Clinic, Faculty of Medicine, Charles University, Prague

TITLE: Verbal spectrum test for evaluation of psychodelics [This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesenik, 20-23 January 1965.]

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 303-305

TOPIC TAGS: drug treatment, behavior pattern, psychoneurotic disorder

ABSTRACT: The verbal spectrum test was used as a model for a discriminating analysis of mental states defined within a limited variety of vocabulary. There is not enough discrimination as yet, but the method appears to be promising. Correlations between the patterns of LSD-induced happiness and anxiety and the therapeutic prognosis of the LSD intoxication are discussed. The patients who showed the highest correlation between the LSD anxiety and happiness have a better therapeutic prognosis. Orig. art. has: 1 table. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: none / OTH REF: 003

Card 1/1   LS

L 29486-66

ACC NR: AP6020023   SOURCE CODE: CZ/C079/65/C07/003/0308/0309

AUTHOR: Hausner, M. (Prague); Dolezal, V.

ORG: Psychiatric Clinic, Faculty of Medicine, Charles University, Prague; First Institute of Medical and Forensic Chemistry, Prague

TITLE: Psychodynamics of LSD hallucinations and their bearing on individual psychotherapy [This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesenik, 20-23 January 1965.]

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 308-309

TOPIC TAGS: psychotherapy, behavior pattern

ABSTRACT: A case of a 33 year old patient is discussed. The patient was administered LSD on two occasions, and under the influence of the drug he painted several pictures that are described and discussed in the article. The authors conclude that there is no sharp border line between the organic and the functional, the structural and the dynamic, and the physiological and the psychological. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1

L 27639-66   EWT(1)   SCTB   DD

ACC NR: AP6015119   (A)   SOURCE CODE: CZ/0060/66/000/002/0056/0059

AUTHOR: Dolezal, Vladimir (Doctor of medicine; Candidate of science); Slavka, Vladimir (Doctor of medicine); Luxa, Josef (Engineer); Rybak, Frantisek; Zemanova, Zdenka

ORG: Institute of Aviation Medicine, Prague (Ustav leteckeho zdravotnictvi); Research Institute of Physiatrics, Balneology, and Climatology, Bratislava (Vyzkumny ustav pro fyziatrii, balneologii a klimatologii)

TITLE: Adaptive reaction of the organism to mountain altitudes of 1500—2000 m

SOURCE: Vojenske zdravotnicke listy, no. 2, 1966, 56-59

TOPIC TAGS: alpine physiology, human physiology, high altitude physiology, high altitude conditioning, physical stress

ABSTRACT: A group of 8 mountain climbers was observed for 6 days under physical stress in the Tatra Mountains at an altitude of 1500—2000 m. The tests were especially designed to study kidney reaction. The following substances were measured at 12-hour intervals: vanillylmandelic acid (3-methoxy-4-hydroxymandelic acid), ketosteroids, mucoproteins, eosinophile, and dehydroepiandrosterone. On the first day high secretion of ketosteroids and low secretion of vanillylmandelic acid were observed. A significant rise in vanillylmandelic acid occurred after the second day when the men had suffered a severe emotional disturbance (news of an accident). Significant changes were observed in the secretion of mucoproteins.. The highest

Card 1/3   UDC: 616-001.12-092.25

L 27639-66

ACC NR: AP6015119

values were registered the first day; a decrease was observed in the following days, and a sharp drop after return from the mountains. Eosinophile values did not change considerably during the 6-day stay in the mountains. Dehydroepiandrosteron was the
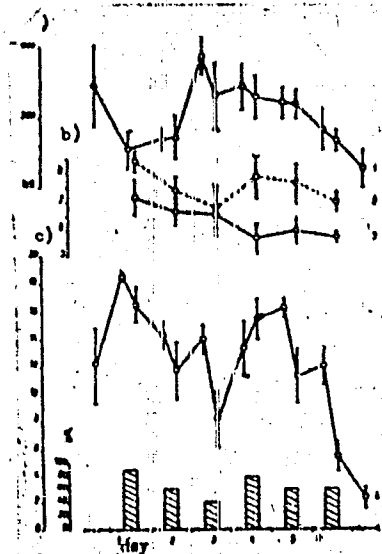

Fig. 1. Deposits of: 1) vanillyl-mandelic acid in microgram/hr in 12-hr portions of urine; 2) neutral 17-keto-steroids in mg/24 hr; 3) dehydroepiandro-sterone in mg/24 hr; 4) units of muco-proteins in 12-hr portions of urine; 5) load in %. (The first and last values indicate the control figures taken before and after return from the mountains.)

a - Vanillylmandelic acid; b - 17-keto-steroids and dehydroepiandrosterone; c - mucoproteins.

Card   2/3

L 27639-66

ACC NR: AP6015119

only substance tested which was reduced without regard to physical or emotional stress (see Fig. 1). The authors conclude that dehydroepiandrosteron can be used as an index of the adaptability of the organism to altitude. A connection was established between the degree of physical stress and deposits of 17-ketosteroids and mucoproteins. Vanillylmandelic acid was found to be a highly sensitive indicator of emotional stress. Further research is indicated to learn how the organism adjusts to altitude when not under physical stress, and whether the process of adjustment can be shortened by repeated exposure to altitude. Orig. art. has: 1 figure and 5 tables. , [KS]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 010/ ATD PRESS: 5602

Card 3/3 N C

L 30942-66   EWT(l)   SCTB   DD

ACC NR: AP6023157   SOURCE CODE: CZ/0060/65/000/004/0164/0166

AUTHOR: Dolezal, Vladimir--Dolezhal, V. (Doctor of medicine; Candidate of sciences);
Luxa, Josef--Luksa, I. (Major; Engineer)

ORG: Institute of Aviation Medicine, Prague (Ustav leteckeho zdravotnictvi)

TITLE: Excretion of 3-methoxy-4-hydroxy-mandelic acid in pilots

SOURCE: Vojenske zdravotnicke listy, no. 4, 1965, 164-166

TOPIC TAGS: excretion, hydroxy carboxylic acid, pilot training, urology, protein

ABSTRACT: Pilots undergoing training for flying supersonic aircraft were
investigated. 3-Methoxy-4-Hydroxy-Mandelic acid was determined in the
urine of pilots. The excretion increased by 80% compared to normal
values. In night samples of urine, the acid content was double the normal
value; this was no doubt due to the emotions before the flight. At the
same time the excretion of mucoproteins in the urine also increased. Technical
participants in this investigation were Bozena Svacinkova, Zdenka Zemanova, and
Frantisek Rybak. Orig. art. has: 2 figures and 2 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 010

Card 1/1   ll   UDC: 613.693.007:616-034/547.588.11/

DOLEZAL, Vladimir, dr.

Ozone danger. Letecky obzor 6 no.7:202-203 '62.

LEDVINA, Milos; KACL, Karel; Mraz, Miroslav; DOLEZAL, Vladimir

Metabolism of 5-methyl-barbituric acid. Cas. lek. cesk. 98 no.27:
840-842 3 July 59.

1. Laborator pro toxikologii a soudni chemii KU, prednosta prof. dr.
Karel Kacl. Farmakologicky ustav KU, povereny vedouci doc. dr. Maxmilian
Wenke. M.L., Praha 2, Katerinska 32.
(BARBITURATES, metab.
5-methyl-5-phenyl-barbituric acid (Cs))

DOLEZAL, Vladimir

"Polamides, their chemistry, preparation, and use" by R.Vesely,
M.Sochor, and others. Reviewed by Vladimir Dolezal. Chem prum
14 no.4:223-224 Ap '64.

1. Ministry of Chemical Industry.

P/013/60/000/002/003/0C3
B124/B220

AUTHOR: Doležal, Vladimír, Engineer

TITLE: Plastics

PERIODICAL: Chemik, no. 2, 1960, 62-64

TEXT: In Czechoslovakia, the production of cast resins and Galalith was
introduced first; a plant was installed at Lipník nad Bečvou for the
production of cast resins, and Galalith was produced in the "Argolit"
works (now MCHZ, Lučebni závody) at Přerov, and later, in the "Ambrolit"
works at Jablonec (now VCHZ Synthesia, Lučebni závody Kolín). The cable
plant at Bratislava has bought from the bakelite company in Hamburg the
license for the production of molded materials and laminated plastics based
on phenol resins. Phenol resin moldings were manufactured at Ostrava,
Semtín and Lutín, and Celluloid and laminated plastics at Sentin and in
some plants in Prague and other places. In the course of the two-year
plan, some small works were united to larger units, e.g. "Plastimat". The
increase in the production of plastics from 1950 to 1957 amounted to 397%.

Card 1/4

Plastics

P/013/60/000/002/003/003
B124/B220

At present, about 15 types of base plastics are produced, i.e., pheno-
plasts, aminoplastis, Galalith, fibers, unsaturated polyester resins,
epoxy resins, ionexchangers,some types of varnish resins and some silicone
resins on a pilot-plant scale: moreover, polyvinyl chloride, polyamides,
methacrylates, Celluloid, Cellophane, carboxy methyl cellulose, ooumarone
indene resins, some types of varnish resins and foam plastion on the basis
of polystyrene. A series of further plastics is in an advanced stage of
development for industrial production. The quality of the products,
however, does not always meet the requirements, and the standards of
Czechoslovakian plastics industry are not in keeping with that of other
branches of industry, such as the machine building industry. In the German
Federal Republic, for instance, the production of plastics per head
amounted to about 9.5 kg, and in Czechoslovakia merely to about 2.6 kg,
whilst the standards of steel production nearly equal, and the coal produc-
tion surpasses, those of the German Federal Republic. By a resolution
adopted by the XI Congress of the Communist Party of Czechoslovakia, the
plastics industry has been assigned the task of increasing its production

Card 2/4

Plastics

P/013/60/000/002/003/003
B124/B220

until 1965 by at least 4 times. Thus, 1965 about 160,000 t of plastics
would be produced, corresponding to a production per head of about 11.2 kg;
this means that the present level of the German Federal Republic and the
USA will be reached in 1965. By 1965, the production of polyvinyl chloride
has to be increased substantially, and the production of polystyrene and
polyethylene should be initiated; for the production of the two last-
mentioned materials, a particularly large amount of raw materials is
available. Besides, an intensified production of emulsion polyvinyl
chloride, and also the production of the suspension polymer and PVC co-
polymers shall be initiated. At the state-owned establishment "Kaučuk",
a production unit for polystyrene shall be created. Moreover, the produc-
tion of high-impact and foam polystyrene, of polyethylene, and of poly-
ester resins is inteded. With regard to the new types of plastics, the
production of fluoro-plastics is planned. By the foundation of a plant
producing vinyl acetate, a basic material for the production of glues and
emulsions will be obtained; furthermore, the production of decorative
melamine laminates (Umacart D), organic glass, phenoplasts, etc. will
be increased.

Card 3/4

Plastics

P/013/60/000/002/003/003
B124/B220

ASSOCIATION: Ministry of the Chemical Industry of the Czechoslovakian
Republic

Card 4/4

PHASE I BOOK EXPLOITATION   CZECH/5379

Doležal, Vladimír, Engineer

Plastické hmoty (Plastics)   Praha, SNTL, 1961. 199 p. 6,215 copies printed.

Reviewer: Jaroslav Hnídek, Engineer; Resp. Ed.: Jana Mikulášová; Tech. Ed.:
    Vladislav Lacina; Managing Ed. for Literature on Chemical Engineering
    (Chief Ed.): Adolf Balada, Doctor.

PURPOSE: This book is intended for the general public, for advanced students in
    secondary and special technical schools, and to familiarize technical personnel
    with the fundamentals of plastics.

COVERAGE: The book reviews in popular form the most important types of plastics
    and explains the general and specific laws governing their formation. The
    preparation and treatment of raw materials, methods of machining and working
    plastics, and the applications and uses of plastics are discussed. In a
    special section the author discusses the economic importance of the develop-
    ment of plastics. The whole production process from raw materials to finished

Card 1/5

Plastics

CZECH/5379

product is illustrated by simple, clear, pictorial diagrams. No personalities
are mentioned. There are 27 references: 4 Soviet, 12 Czech, 6 German, and
5 English.

TABLE OF CONTENTS:

Card 2/5

DOLEZAL, Vladimir (Praha)

Second theorem about the mean value of the integral calculus. Cas
pro pest mat 85 no.1:84-86 F '60.   (EEAI 9:10)
          (Calculus)

DOLEZAL, Vladimir (Praha)

Nonuniqueness of solutions of a system of differential equations.
Cas pro pest mat 85 no.3:311-337 Ag '60.   (EEAI 10:1)
        (Differential equations)

DOLEZAL, Vl.; PROKES, J.; KACL, K.

A perfusion pump operating on the autopulsation principle. Acta univ. carol. [med.] Suppl. 14:323-327 '61.

1. I. ustav pro chemii lekarskou a soudni fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. K. Kacl.
    (PERFUSION equip & supply)   (IDENTIFICATION MEDICOLEGAL)

DOLEZAL, Vlad., MUDr.

Use of oxygen in civil air transport. Letecky obzor 6 no.3:76-79 '62.

DOLEZAL, V.

The effect of longlasting oxygen inhalation upon respiratory para-
meters in man. Physiol. Bohemoslov. 11 no.2:149-158 '62.

1. Institute of Aviation Medicine, Prague.

(OXYGEN metabolism)   (RESPIRATION)

DOLEZAL, V.; VOREL, F.; ANDEL, J.

Effect of prolonged oxygen inhalation at normal barometric pressure on carbohydrate metabolism in rats. Physiol. bohemoslov. 11 no.3: 236-242 '62.

1. Institute of Aviation Medicine, Prague, Faculty of Mathematics and Physics, Charles University, Prague.

(CARBOHYDRATES metabolism)   (OXYGEN pharmacology)

DOLEZAL, V.

Effects of the body of prolonged inhalation of oxygen during normal
barometric pressure. Cesk. fysiol. 11 no.4:326-355 '62.

1. Ustav leteckeho sdravotnictvi, Praha.
                (OXYGEN pharmacol)

CZECHOSLOVAKIA

Vladimir DOLEZAL MD and Frantisek NADVORNIK graduate physician (Promovani lekar), Institute for Flight Medicine (Ustav leteckeho zdravotnictvi) and Institute of Forensic Medicine of FVL-KU (Ustav pro soudni lekarstvi FVL-KU [abbreviation not identified: Fakulta vojenskeho zdravotnictvi Karlove University = Faculty of Military Medicine of Charles University?] Prague.

"Some Pathologic Findings in Experimental Animals After Prolonged Oxygen Breathing."

Prague, Vojenske Zdravotnicke Listy, Vol 31, No 6, Dec 62, pp 245-249.

Abstract: Guinea pigs in (95 to 98%) O_2 chamber showed increasing respiratory difficulties. At 30 hours, no gross behavioural change and but slight histological ones; at 48, alveolar RBC diapedesis, capillary congestion, increasing interalveolar septal inflammatory changes, alveolar hyalinization; beyond 98 hours, dyspnea, orthopnea, gasping, congestive right heart failure, much pleural exudate. Escherichia coli in pulmonary parenchyma, but antibiotics failed to modify symptoms. Graph, 2 tables, 4 photomicrographs; 6 Soviet and 36 Western references.
1/1

CZECHOSLOVAKIA

DOLEZAL, Vladimir, MD, CSc, Institute of Aviation Medicine, Prague.

"Comments about the Therapeutic Use of Oxygen."

Abstract [English summary modified]: A review of the literature with discussion of non-inhalatory routes, paradoxal effects, positive-pressure breathing, all with regard to requirements of flying personnel. Six Czech, 16 Soviet and 28 Western references.

1/1

DOLEZAL, Vladimir, MUDr., CSc.

Spreading of contagious diseases. Letecky obzor. 7 no.12:
371   D'63.

*

DOLEZAL, Vladimir, MUDr. CSc.

Health conditions of pilots and the safety of passergers.
Letecky obzor 9 no.1:13 Ja '65.

DOLEZAL, V.; HAUSNER, M.

Sociometric perspectives in relation to mental health in the work process. Acta nerv. sup. (Praha) 6 no.4:404-405 '64.

1. Psychiatricke oddeleni, ZUNZ CKD Praha.

L 41519-65   ARG/ELO-2/EWG(j)/EWT(d)/FBD/FSS-2/EWG(r)/EWT(1)/FBO/EWP(e)/EWA(c)/
EWT(m)/FS(v)-3/EPF(c)/EEC(k)-2/EWG(o)-2/EWP(l)/EWP(f)/EWG(v)/EWP(c)/EWP(v)/EWA(1)/
EPR/EWP(j)/T-2/EWG(a)-2/EWP(h)/EPA(bb)-2/EEC(c)-2/ESD-2/EWG(c)/FCS(k)/EWP(b)/
AM4U5110   Pl-4/Pr-4/Pk-4/Pn-4/ BOOK EXPLOITATION   Pi-4/Fh-4/Pno-2/Po-4/Pr-4/
Po-4/Pe-5/Fq-4/Pac-4/Fr-4.   IJP(c)   AST/TT/EW/DD/EM/GW/BC/WH
Barvir, Miroslav, (Engineer); Denes, Konrad, (Professor, Doctor); Douska, Jiri,
(Doctor); Budil, Ivo, (Graduate in Philosophy); Ceplecha, Zdenek, (Candidate of
Physical and Mathematical Sciences); Codr, Milan, (Doctor); Dolezal, Vladimir,
(Doctor); Dvorak, Antonin, (Candidate of Medical Sciences); Dverak, Josef, (Doctor);
Guth, Vladimir, (Candidate of Medical Sciences, Docent, Doctor); Horak, Zdenek,
(Doctor of Physical and Mathematical Sciences, Corresponding Member of the
Czechoslovak Academy of Sciences, Professor, Doctor); Hospodar, Jan, (Doctor of
Physical and Mathematical Sciences, Doctor); Kleczek, Josip, (Doctor); Klest,
Phil, (Candidate of Physical and Mathematical Sciences); Kolodovsky, Milan; Koml,
Vladimir (Doctor); Kopecky, Miloslav, (Candidate of Legal Sciences); Krivsky,
Ladislav, (Candidate of Physical and Mathematical Sciences); Kviz, Zdenek, (Can-
didate of Physical and Mathematical Sciences); Ledvina, Milan, (Engineer); Malcik,
Vladimir, (Doctor); Moravek, Milan, (Candidate of Medical Sciences); Mrazek,
Jaroslav, (Candidate of Medical Sciences, Engineer); Mrazek, Jiri, (Candidate of
Technical Sciences); Neuzil, Ludek, (Doctor); Novotny, Zdenek, (Candidate of
Physical and Mathematical Sciences); Novotny, Zdenek, (Doctor);Perncgr, Jaroslav,
(Doctor); Candidate of Physical and Mathematical Sciences; Pesek, Rudolf, Professor,
Doctor, Engineer); Pipal, Miloslav, (Doctor of Technical Sciences, Corresponding
member, of the Czechoslovak Academy of Sciences); Plavec, Miroslav, (Doctor);
Pokorny, Zdenek, (Candidate of Physical and Mathematical Sciences, Docent, Doctor);

Card 1/8
2.

L 41519-65;
AP4045110   /4

Ruml, Vladimir, (Candidate of Medical Sciences, Doctor); Sadil, Josef, (Doctor of Physiological Sciences); Schnal, Ladislav; Stvernk, Jiri, (Doctor); Svcatka, Zdcnck, (Doctor); Tuma, Jaroslav, (Candidate of Physical and Mathematical Sciences, Doctor); Tyml, Vaclav, (Docent, Engineer); Ulchln, Ivan, (Candidate of Technical Sciences, Professor, Doctor); Valnicck, Poris, (Candidate of Physical and Mathematical Sciences, Doctor); Vanysek, Vladimir, (Candidate of Physical and Mathematical Sciences, Docent, Doctor); Vlasak, Marian, (Candidate of Physical and Mathematical Sciences; Doctor); Voda, Miloslav, (Engineer)

Principles of astronautics (Zaklady kosmonautiky) Prague, Orbis, 1964. 445 p. illus., biblio. 5000 copies printed.

TOPIC TAGS: cosmonautics, rocket, satellite, space flight, missile

PURPOSE AND COVERAGE: This publication is a popular scientific reference book for people working in cosmonautics. The book presents a survey of cosmonautics and space flight up to 1 June 1963.

TABLE OF CONTENTS:

Card 2/8

AUTHOR: Dolezal, Vladimir (Doctor of medicine; Candidate of science); Slavka, Vladimir (Doctor of medicine); Luxa, Josef (Engineer); Rybak, Frantisek; Zemanova, Zdenka

ORG: Institute of Aviation Medicine, Prague (Ustav leteckeho zdravotnictvi); Research Institute of Physiatrics, Balneology, and Climatology, Bratislava (Vyzkumny ustav pro fyziatrii, balneologii a klimatologii)

TITLE: Adaptive reaction of the organism to mountain altitudes of 1500—2000 m

SOURCE: Vojenske zdravotnicke listy, no. 2, 1966, 56-59

TOPIC TAGS: alpine physiology, human physiology, high altitude physiology, high altitude conditioning, physical stress

ABSTRACT: A group of 8 mountain climbers was observed for 6 days under physical stress in the Tatra Mountains at an altitude of 1500—2000 m. The tests were especially designed to study kidney reaction. The following substances were measured at 12-hour intervals: vanillylmandelic acid (3-methoxy-4-hydroxymandelic acid), ketosteroids, mucoproteins, eosinophils, and dehydroepiandrosterone. On the first day high secretion of ketosteroids and low secretion of vanillylmandelic acid were observed. A significant rise in vanillylmandelic acid occurred after the second day when the men had suffered a severe emotional disturbance (news of an accident). Significant changes were observed in the secretion of mucoproteins.. The highest

1/2

DOLEZAL, Zdenek; SRP, Emil

Meeting of the Standardization Group of the Permanent Coal Commission
of the Council for Mutual Economic Assistance. Uhli 5 no.3:101-102
Mr '63.

1. Ministerstvo paliv.

DOLEZAL, Zdenek; SRP, Emil

       Principles of standardization within the cooperation of the
       Council for Mutual Economic Assistance. Uhli 5 no.8:283 Ag '63.

       1. Ministerstvo paliv.

DOLEZAL, Zdenek; SRP, Emil

Conference of mining standardization specialists of the Permanent Coal Commission of the Council for Mutual Economic Assistance. Uhli 5 no.8:285 Ag '63.

DOLEZAL, Zdenek; SIP, Emil

    Meeting of the Standardization Group of the Permanent Coal
    Commission of the Council for Mutual Economic Assistance in
    Leipzig. Normalisace 11 no.4:120-121 Ap '63.

1. Ministerstvo paliv, Praha.

DOLEZAL, Zdenek; SRP, Emil

Interational conference of mining standardization specialists
of the Permanent Coal Commission of the Council for Mutual
Economic Assistance in Ostrava. Normalizace 11 no.8:257-258
Ag '63.

1. Ministerstvo paliv, Praha.

HELCL, J.; DOLEZALEK, J.

Awakener of the people, Dr. Jan Melichar (1810-1901). Cas. lek.
cesk. 102 no.17:464-466 26 Ap '63.
                    (BIOGRAPHIES)   (HISTORY OF MEDICINE, XIX CENT)

Influences acting on the content of diacetyl in the butter culture. _I.L. Dolezalek._ (Agr. Forestry Inst., Prague). Sbornik Ceskoslov. Akad. Zemědělских 24, 355-60(1951).— Polarographic method was for the first time used in studying the development of the diacetyl formation. It is claimed that the butter culture as a whole does not influence by its plus or minus varieties the diacetyl content and it is, therefore, possible to study independently the influence of temp., kind of milk, L-ascorbic acid, citric acid, etc. The optimal temp. for the formation of the diacetyl was 23°. At this temp. diacetyl begins to develop after 7-9 hrs. depending on the kind of culture, and an intensive mothering takes place after 12 hrs. If the ripe culture is kept at temp. optimal for the development of microbes constituting the substance of the butter culture, then a drop in diacetyl takes place. Important factors to observe are the quality of the milk used for the production of pure cultures (starters) and the mother used. Direct relation between diacetyl in sour milk and in the starter prepd. from the same milk was ascertained. Citric acid was found to have favorable influence on diacetyl formation. It has been proved that not only _Streptococcus citrovorus_ and _S. paracitrovorus_, but also _S. lactis, S. cremoris, Thermobacterium bulgaricum, T. jogurtum, T. casei_ and other milk bacteria can develop diacetyl if given a suitable medium.   L. A. Helwkh

A practical method for biacetyl enrichment of fats by lactic acid bacteria. Jiri Drietblick (Vysoká škola zemědělská, int., Prague, Czech.) Sbornik Československé Akad. Zeměděl 25, 317 42(1952) Optimum temp. for biacetyl (I) formation in whey is 25° and the amt. varies from 1 to 2%. Addn. of 0.1% citric acid or 0.01 to 0.2% L-ascorbic acid to whey has a favorable effect on I formation. Aeration with sterile air increases the amt. of I 8-10 times. It is necessary to acclimatize Lactic acid bacteria cultures to new whey medium. Acetoin formation in whey is so weak that it cannot be utilized for conversion to I. With addn. of citric and L-ascorbic acids to whey and aeration at 25° 0.12% I is produced.   Jan Micka

Free amino acids in cheese. Jiří Doležálek (Tech. Univ., Prague). *Prumysl Potravin* 7, T15-8 (1956).—Decompn. products and free amino acids (I) were detd. in 24 kinds of cheese by quant. 2-dimensional paper chromatography. The dependence was studied of the content of I on the type and manufg. process. Valine, methionine, leucine, isoleucine, alanine, lysine, and glutamic acid were present in all cheeses in the highest relative amts.   L. J. U.

DOIEZALEK, J.

Effect of a salt bath on salt penetration and quality of the Moravian loaf cheese. p. 177

PRYMSL, POTRAVIN. Praha, Czechoslovakia, Vol. 10, no. 4, April 1959.

Monthly List of East European Accessions (FEAI) LC, Vol. 8, No. 7, July 1959.
Uncl.

DOLEZALEK, Jiri, doc., inz., dr.; ZAVODSKY, Karel, inz.

Hydrogen peroxide treatment of milk and its use in hard cheese production. Prum potravin 13 no.4:200-204 Ap '62.

1. Vysoka skola chemicko-technologicka, katedra technologie mleka a tuku, Praha.

DOLEZALEK, Jiri, doc., ins., dr.; JANDOVA, Danuse, inz.

Effect of sodium chloride on the quality of Nalzov cheese. Prum potravin 14 no.1:10-11 Ja '63.

1. Vysoka skola chemicko-technologicka, katedra technologie mleka a tuku, Praha.

STIES, Bohumil, inz., C.Sc.; DOLEZALEK, Jiri, doc., inz., dr.

The 16th International Dairy Congress. Prum potravin 14 no.1: 37-40 Ja '63.

1. Vyzkumny ustav mlekarensky, Praha (for Sties). 2. Vysoka skola chemicko-technologicka, katedra technologie mleka a tuku, Praha.

Bil. ab.

Elimination of organic sulfur from town's gas. F. Perna and J. Dolejsik. (Paliva, 1930, 10, 3—7).—Town's gas, having S = 14, where S is g. of org. S per 100 cu. m. of gas, is passed over a 10:3 mixture of Luxmasse catalyst and Na_2CO_3 at 250—300°, when CS_2, COS, and thiols and mercaptans are removed, having a residual S of ~ 2, due to thiophen. 10% Ag, NaOH was added to mixtures of industrial earth with various silicates, to give catalysts containing 10% of hydroxides or oxides of metals, and desulphurising activity was determined at 250°; the residual S was: $Ca(OH)_2$ 2·6, $Zn(OH)_2$ 6·6, CuO 6·6, 1:1 $Fe(OH)_2$-$Al(OH)_2$ 6·5, 1:1 $Zn(OH)_2$-$Al(OH)_2$ 6·0, $Al(OH)_2$ 7·6, ZnO 7·1, $NH(OH)_2$ 11·4, NiO 11·4, $Mn(OH)_2$ 12·7. The activity of the catalysts was unaffected by varying the CO_2 and H_2O contents of the gas, and was not significantly affected by addition to Lux catalyst of 1—10% of Ni^{II}, Tl, Ce^{IV}, Zr, Zn, Cr^{III}, Co^{II}, Th, Mn^{II}, or Pb hydroxides, or of MoO_3, Ag_2O, or H_2WO_4. Scrubbing with anthracene oil (1·10 or 0·5 l. per cu. m.), followed by catalytic oxidation reduces the val. of S to 1·5 or 0·5, respectively, but the process is uneconomical, owing to the need for frequent replacement of the oil. Preliminary scrubbing with 90% H_2SO_4 allows of reduction of S to 0·11—0·35, and prevents inactivation of the catalyst by tarry matter; the gas should be dried before scrubbing, as the activity of H_2SO_4 diminishes rapidly as the concn. falls below 90%.

R. Truscoe.

Dolezalik, V.

(H)drogenolysis of n-cnnane to toluene. P. Ferra and V. Dolezalik. ... 31, 145-... -- ... Cymene, together with ... 80 arm ... 380-40° ... A₂O₃ was used as a catalyst ... Methyl ... a mixer of ... with V₂O₅ catalysis ... The cleavage is ... step to 1-methyl-3-ethylbenzene to p-xylene to toluene; also other aromatic hydrocarbons are formed. The various fractions were detd. by infrared spectroscopy on a Perkin-Elmer instrument.

J. Lederer —

CZECHOSLOVAKIA/Chemical Technology. Chemical
        Products and Their Applications.   H-2
        Chemical Engineering.

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 23638

Author   : Kohoutek, J., Dolezalik, V., Vormouzek, C.
Inst   : ...
Title   : Effect of the Concentration of Separating
         Mixtures on the Efficiency of Rectifying
         Units.

Orig Pub : Chem. listy, 1958, 52, No 5, 869-873

Abstract : It is established that changes in the
         diffusion coefficient and in viscosity as
         a function of concentration of a mixture
         have considerable effect on the efficiency
         of rectifying apparata. It is particularly

Card   : 1/2

H - 4

DOLEZHALIK, Viteslav [Dolezalik, Viteslav], dots., doktor; STUKHLIK, I.,
[translator]; GEL'PERIN, N.I., prof., red.; KOROBTSOVA, N.A., red.;
TROFIMOV, A.V., tekhn. red.

[Similitude and modeling in chemical engineering] Podobie i mo-
delirovanie v khimicheskoi tekhnologii. Moskva, Gos. nauchno-
tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 95 p.
(MIRA 14:5)

(Chemical engineering)   (Dimensional analysis)

S/081/63/000/002/051/088
B171/B102

AUTHORS: Doležalík, Vítězslav, Řihánek, Stanislav, Foniok, Alfred

TITLE: Preparation of pure formaldehyde with a low content of formic acid

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1963, 401, abstract 2N24 (Czechosl. patent 100705, Aug. 15, 1961)

TEXT: The mixture obtained by dehydrating an aqueous solution of CH_2O in the presence of an aliphatic or alicyclic alcohol is distilled in the presence of an organic liquid forming no stable compounds with the components of the mixture, and having a boiling point $\angle 120°C$. It is more convenient to use a liquid that has a relatively high vapor pressure and is able to absorb alcohols, HCOOH, and water from gaseous CH_2O. Such liquids are, e.g. water-soluble ethers [n-dioxan (I), trioxan, $(CH_3OCH_2)_2$], and also C_6H_6, C_6H_{14}, cyclohexane. The dissociation of the dehydrated mixture in the presence of a liquid, having a boiling point lower than the

Card 1/2

Preparation of pure formaldehyde with ...   S/081/63/000/002/051/088
                                                    B171/B102

dissociation temperature of the mixture, takes place at temperatures
< 120°C. There is no increase in the acidity of the product, as the
Cannizzaro reaction does not occur. An example: 71.5 parts of 58%-aqueous
solution of CH_2O and 60 parts of cyclohexanol are introduced into a still
and water is removed by vacuum distillation. With water, 1.5 parts of
CH_2O are also removed. Subsequently, 100 parts of water-free I are added
into the still and boiling is conducted at the usual pressure. I returns
to the still from the reflux condenser, whereas the condenser discharges
the purified and water-free CH_2O, containing 33% less of HCOOH than the
raw material. [Abstracter's note: Complete translation.]

Card 2/2

DOLEZALIK, V., doc. inz. dr.

Seventieth birthday of Professor Frantisek Perna. Paliva
44 no. 7:240 Jl '64.

DOLEZALOVA, A.

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and
          Their Applications - Fermentation Industries.   H.

Abs Jour   : Ref Zhur - Khimiya, No 11, 1958, 37768

Author   : Olbrecht, M., Dolezalova, A.
Inst   : -
Title   : Selection of Brewing Barley Varieties for the Production
              of Diastatic Malt.

Orig Pub   : Kvasny Prumysl, 1957, 3, No 1, 243-247

Abstract   : As a result of technical breed testing (in laboratory
              and plant conditions) it has been demonstrated that,
              as far as diastatic activity is concerned, best re-
              sults were obtained in Czechoslovakia from Kashtitzki,
              Detenicky, Bogatyr and Ratborzheky barleys.
              Those varieties yield a special diastatic malt.

Card 1/1

DOLEZALOVA, A. TRKAN, M.

Determining the odor of malt by an objective method. p. 98.

(Kvasny Prumysl. Vol. 3, no. 5, May 1957, Praha, Czechoslovakia)

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

DOLEZALOVA, A.; NENTWICHOVA, M.; VLCEK, J.

Experience with experimental malting in shifting heaps. Kvasny prum 9 no.2:25-27 F '63.

1. Vyzkumny ustav pivovarsky a sladarsky Praha, pracoviste Brno.

DOLEZALOVA, A.; NETWICHOVA, M.; VLCEK, J.

Economical water consumption in pneumatic malting plants.
Kvasny prum 9 no.8:188-191 Ag '63.

1. Vyzkumny ustav pivovarsky a sladarsky, Praha, pracoviste
Brno.

DOLEZALOVA, Alice

Steeping of barley on the heap shifting production lines. Kvasny
prum 10 no. 8:178-179 Ag '64.

1. Research Institute of Brewing and Malting, Worksite Brno.

STANEK, M., dr.; UJEVIC, I., inz.; NOVAKOVA, J., inz.; DOLEZALOVA, H., inz.

Effect of the Indian corn seed treatment by preparations contai-
ning tetramethylthiuram disulfide on the development of parasitic,
saprophytic, and mycolytic microflora around the planted seed.
Rost vyroba 10 no. 4:423-434 Ap '64.

1. Institute of Microbiology, Czechoslovak Academy of Sciences,
Prague (for Stanek). 2. Central Research Institute of Plant
Production, Ruzyne (for Ujevic). 3. Central Control and Testing
Institute of Agriculture, Brno (for Novakova).

CZECHOSLOVAKIA

SPALA, M., JELINEK, I., DOLEZALOVA, H., STEJSKAL, J.,
POKORNY, Z; Institute of Pathological Physiology and 1st Path-
ological and Anatomical Institute Faculty of General Medicine,
Charles University (Ustav Patologicke Fysiologie a I. Patalog-
icko-Anatomicky Ustav Fak. Vseob. Lek. KU), Prague.

"Compensation Kidney Hypertrophy of Rats as an Experimental
Model of   Induced Tissue Growth."

Abstract: 300 adult male rats were subjected to unilate...
rectomy and the progress of the compensatory hypertrophy of the
other kidney was investigated. The weight of the animals de-
creased after the operation and reached the original value after
days. The weight of the remaining right kidney started to
increase after 8 days, and after 32 days it was 150% of the
original weight. The influence of administration of methyl-
testosterone, dimethylandrostanolon and Royal Jelly after the
operation was investigated. 1 Figure, 1 Czech reference.
Submitted at "16 Days of Physiology" at Kosice, 28 Sep 65.

1/1

FRYDL, Vladislav, ins.; DOLEZALOVA, Jarmila

Some interesting experience with the production of processed cheese.
Prum potravin 13 no.9:481-487 S '62.

1. Laktos, n.p., Praha (for Frydl). 2. Vyzkumny ustav mlekarensky,
Praha (for Dolezalova).

DOLEZALOVA, Jaroslava

The monocytogram in premature infants. Cesk.pediat.16 no.1:45-48
Ja '61.

1. II. detska klinika v Praze, prednosta prof. dr. J. Houstek.
     (INFANT PREMATURE blood)
     (MONOCYTES in inf & child)

SULC, Josef, inz. dr.; DOLEZALOVA, Jarmila

Properties and testing of wad milk filters. Prum potravin 15
no.8:405-407 Ag '64.

1. Institute of Dairy Research, Prague.

DOLEZALOVA, J.;KARAS, J.

Studien on physiological bases of surgical disease; preliminary
communication. Acta. chir. orthop. traum. cech. 19 no.4-8:133-136
1952.
(CLML 23:2)

1. Of the Clinic of Orthopedics and Children's Surgery (Head--Prof.
J. Zahradnicek, M.D.) of Charles University, Prague and of the Depart-
ment of Orthopedics and Children's Surgery (Head--Vaclav Tosovsky,
M.D.) of State Hospital in Prague II.