

MARCUS, Solomon

Stationary ensembles of the finite or infinite derived functions.  
Comunicarile AR 12 no.4:399-402 Ap '62.

1. Comunicare prezentata de academician M.Nicolescu, membru  
al Comitetului de redactie, "Comunicarile Academiei Repu-  
blicii Romine."

MARCUS, Solomon

On a theorem of A.S.Kronrod. Comunicarile AR 12 no.3:287-288 Mr '62.

1. Comunicare prezentata de academician Miron Nicolescu, membru al Comitetului de redactie, "Comunicarile Academiei Republicii Populare Romine."

MARCUS, Solomon

On a problem set up by O.Frink Jr. Comunicarile AR 12  
no.3:281-286 Mr '62.

1. Comunicare prezentata de academician Miron Nicolescu,  
membru al Comitetului de redactie, "Comunicarile Academiei  
Republicii Populare Romine."

MARKUS, Solomon [Marcus, Solomon.]

On a logical model of elementary grammatical category.  
Pt. 3. Rev math pures 7 no. 4:683-691 '62.

MARCUS, S.

Some aspects of mathematical linguistics in the Soviet Union. II.  
Analele mat 15 no.4:3-34 O-D '61.

(Mathematics) (Russian language)

MARCUS S. (Bucarest)

On quasi-continuous functions in the sense of S.Kempisty. Col math  
8 no.1:47-53 '61. (EEAI 10:5)  
(Functions) (Topology)

MARCUS, Solomon

Description of some morphologic phenomena with the aid of  
the theory of ensembles. Rev math pures 6 no.4:735-744  
'61.

MARCUS, Solomon

Linguistic structures, and structures in topology. Rev math pures 6  
no.3:501-506 '61.



MARCUS, S. (Bucarest)

On a descriptive property analogous to the N property of Lusin.  
Col math 7 no.2:213-220 '60. (EAI 10:1)  
(Aggregates) (Functions)

MARCUS, S.; VASILIU, Em.

Mathematics and phonology; the theory of graphs and the consonantism  
of the Rumanian language. II. Rev math pures 5 no.3/4:681-703 '60.  
(EEAI 10:5)

(Mathematics)  
(Grammar, Comparative and general)  
(Rumanian language)

MARCUS, S.

Synthesis of the functions of bounded variation. *Rev math pures* 5  
no.2:375-382 '60. (EAI 10:9)

(Functions) (Calculus of variations)  
(Integrals) (Topology)

MARCUS, S.; VASILIU, Em.

Mathematics and phonology; the theory of graphs and the consonantism  
of the Rumanian language. I. Rev math pures 5 no.2:321-340 '60.  
(EEAI 10:9)

(Mathematics) (Rumanian language)

MARKUS, Solomon[Marcus, Solomon]

On a theorem formulated by A. Lindenbaum and demonstrated by  
W. Sierpinski. Rev math pures 5 no.1:103-105 '60.

(EEAI 10:9)

(Aggregates) (Numbers, Theory of) (Functions)

MARCUS, S.

On the superposition of two integrable functions in the sense of  
Riemann and on the change of variable in the Riemann integral.  
Rev math pures 4 no.3:381-389 '59. (EEAI 10:9)

(Functional analysis) (Integrals) (Riemann surfaces)  
(Transformations(Mathematics))

Doklady Akad. Nauk 112, 812-814 (1957)

CARD 2/2

PG - 968

and if they are continuous in all points of D in every variable, then they are identical in D.

For  $n = 2$ , D is the product of certain intervals  $(x_0 - \eta, x_0 + \eta)$  and  $(y_0 - \frac{1}{p}, y_0 + \frac{1}{p})$ .

INSTITUTION: Math. Inst. Acad. Rumanian Republic.

SUBJECT USSE/MATHEMATICS/Theory of functions CARD 1/2 PG - 868  
AUTHOR MARKUS S.  
TITLE On functions being continuous in every variable.  
PERIODICAL Doklady Akad.Nauk 112, 812-814 (1957)  
reviewed 6/1957

Theorem 1: It exists a function  $f(x,y)$  being defined in the unit square  $P$ , vanishing on an everywhere in  $P$  dense set  $E$ , being continuous in  $P-E$  with respect to every variable and being not identically equal to zero in  $P$ .

Theorem 2: Let  $f(x,y)$  be defined in  $G$  and satisfy the following conditions: 1)  $f(x,y)$  is continuous in  $x$  in  $G$ , 2) it exists a set  $E \subset G$  being everywhere dense in  $G$ , on which  $f(x,y)$  vanishes, 3)  $f(x,y)$  is continuous in  $G-E$  in  $y$ . Then  $f(x,y) = 0$  in  $G$ .

Theorem 3: Let  $f(x,y)$  be defined in  $G$ , let exist a complement of a set of first category  $E \subset G$  such that  $f(x,y) = 0$  for  $(x,y) \in E$ , let  $f(x,y)$  be continuous in  $G-E$  in every variable. Then  $f(x,y) = 0$ .

Theorem 4: If the functions of real variables  $f(x_1, \dots, x_n)$ ,  $g(x_1, \dots, x_n)$  being defined in  $D$  are identical on a set  $E$  being everywhere dense in  $D$ ,



Marcus, S. Aspects of the theory of analytic and projective sets. Acad. R. P. Romine. An. Romino-Soviet. Ser. Mat.-Fiz. (3) 11 (1957), no. 2, 5-29. (Romanian) Expository paper.

2

Small

MARCUS, S.

The modern theory of the notion of the length of a curve.

p. 281 (Gazeta Matematica Si Fizica) Vol. 9, no. 6, June, 1957, Bucuresti, Rumania

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

Erdős, P.; et Marcus, S. Sur la décomposition de l'espace euclidien en ensembles homogènes. Acta Math. Acad. Sci. Hungar. 8 (1957), 443-452.

3

A non-null subset of euclidean  $n$ -space  $E_n$  is homogeneous (Borel) if for each two of its points  $X, Y$  the translation  $XY$  transforms the set in itself. The authors show that there does not exist any decomposition of  $E_n$  into a finite number  $k$  of pairwise mutually exclusive homogeneous sets for  $k > 1$ . On the other hand, they prove that the  $E_n$  may be decomposed into  $m$  homogeneous, non-

measurable sets  $E_i$ , superposable by translation, (and each containing a non-null perfect set) for  $k_0 \leq m \leq 2^{k_0}$ . Moreover, for each measurable set  $E$  of  $E_n$ ,  $\mu^*(E_i \cap E) = \mu(E)$ ,  $\mu_*(E_i \cap E) = 0$ , where  $\mu^*$ ,  $\mu$ ,  $\mu_*$  denote exterior measure, measure, and interior measure, respectively. Similar results for the line have been established by Ruziewicz [Fund. Math. 5 (1924), 92-95] and Halperin [Proc. Amer. Math. Soc. 2 (1951), 221-224; MR-12, 685].

L. M. Blumenthal (Columbia, Mo.)

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Smul

MARCUS, S.

Points of discontinuity and points of differentiability. In Russian. p. 471.

REVUE DE MATHEMATIQUES PURES ET APPLIQUES. JOURNAL OF PURE AND APPLIED  
MATHEMATICS. (Academia Republicii Populare R omine) Bucuresti. Rumania.  
Vol. 2, 1957.

Monthly list of East European "cessions (EEAL LC Vol. 9, no. 1, January 1960.  
UNCL

MARCUS, S.

On S. Stoilow's theorem concerning continuous functions of a real variable.  
In French. p. 409.

REVUE DE MATHEMATIQUES PURES ET APPLIQUEES. JOURNAL OF PURE AND APPLIED  
MATHEMATICS. (Academia Republicii Populare R omine) Bucuresti. Rumania.  
Vol. 2, 1957.

Monthly List of East European Accessions (ELAL) LC. Vol. 9, no. 1, January 1960.  
UNCL

The Superposition of Functions and the Isometry of Certain Classes of Functions

Marcus, Solomon. La superposition des fonctions et l'isométrie de certaines classes de fonctions. Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.) 1(49) (1957), 69-76.

2  
1-FIW

Cet article contient quinze propositions dont les démonstrations dépendent plus ou moins de résultats antérieurs dus principalement à W. Sierpinski et St. Ruziewicz. La proposition extraite et sa démonstration peuvent être regardées comme originales et typiques. Proposition: Il existe un ensemble  $\mathfrak{M}$  de fonctions réelles, bornées, ponctuellement discontinues, intégrables au sens de Riemann (donc mesurables) et dérivables presque partout sur  $[0, 1]$ , isométrique à l'espace  $S$  des fonctions bornées  $x(t)$  sur  $[0, 1]$  métrisé par  $\rho(x, y) = \sup |x(t) - y(t)|$ . Esquisse de la démonstration:  $r_1, r_2, \dots, r_n, \dots$ ; suite de tous les nombres rationnels de  $[0, 1]$ . Fonction auxiliaire:  $\varphi(t) = \sum 2^{-n}$ , la somme  $\sum^n$  s'étendant à tous les  $n$  tels que  $r_n < t$ . A tout  $x(t) \in S$  on fait correspondre la fonction  $\xi(t) = x(t')$  si  $t = \varphi(t')$ ,  $= 0$  si  $t \in [\varphi(r_n), \varphi(r_{n+1})]$  pour un certain  $n$ . La correspondance  $x(t) \leftrightarrow \xi(t)$  est une isométrie;  $\xi(t)$  est continue et à dérivée nulle presque partout sur  $[0, 1]$ .

Chr. Pauc (Nantes)

MARCUS, Solomon

Marcus, Solomon. Sur une généralisation des fonctions de G. Hamel. Atti Accad. Naz. Lincei. Rend. Cl. Sci. Fis. Mat. Nat. (8) 20 (1956), 584-589.

L.F.W

2

Una funzione reale  $f(x)$  della variabile reale  $x$  è interna nell'intervallo  $(a, b)$  se per  $a < x < y < b$ , quando non risulta  $\min(f(x), f(y)) < f((x+y)/2) < \max(f(x), f(y))$ , risulta

$$\min(f(x), f(y)) = f((x+y)/2) = \max(f(x), f(y)).$$

È l'Autore studia le funzioni interne che non siano al tempo stesso monotone. Funzioni interne non monotone son, per esempio, le funzioni di Hamel, cioè le soluzioni discontinue dell'equazione funzionale  $f(x+y) = f(x) + f(y)$ . L'Autore prova che la totalità delle funzioni di Hamel non esaurisce quella delle funzioni interne non monotone; che il diagramma di una funzione interna e non monotona può anche non esser ovunque denso nel piano, mentre quello di una funzione di Hamel è notoriamente ovunque denso nel piano; che una funzione interna e non monotona è sprovvista della proprietà di Baire rispetto ad ogni insieme di seconda categoria, provvisto della proprietà di Baire e contenuto nell'intervallo  $(a, b)$  in cui la funzione è assegnata; che una funzione interna e non monotona, definita nell'intervallo  $(a, b)$ , non è qualitativamente continua in nessun punto di  $(a, b)$ . L'Autore studia le funzioni interi e non monotone anche dal punto di vista della connessione e della totale mancanza di connessione dei loro diagrammi. G. Scorza Dragoni (Padova).

1/1 8mm

MARCUS, S.

Marcus, S. Sur les fonctions de Hamel. Acad. R. P.  
Romine. Bul. Şti. Secţ. Şti. Mat. Fiz. 8 (1956), 517-528.  
(Romanian - Russian and French summaries)

2

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*Marcus, S.*

*2*

~~Marcus, S.~~ Contribution à une analyse des fonctions <sup>16</sup> ~~réelles~~, basée sur la notion de catégorie (au sens de Baire). Acad. R. P. Romine. Stud. Cerc. Mat. 7 (1956), 251-272. (Romanian. Russian and French summaries) *1-FW*

*Smith*

MARCUS, S

Marcus, S. Sur la détermination d'une fonction partiellement continue par les valeurs prises sur un ensemble dense. II. Com. Acad. R. P. Rouine 6 (1956), 965-987. (Romanian. Russian and French summaries)

Three theorems, of which the first is: if a function  $f(x_1, x_2, \dots, x_n)$  of  $n$  variables, defined on a domain  $G$ , vanishes on a set  $E$  which is everywhere dense in  $G$  and if  $f$  is continuous in each of its variables separately, then  $f$  vanishes identically in  $G$ . Compare part I, which was reviewed in MR 17, 1064.

2  
I.F.W

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MARCUS, S.

Marcus, S. Sur un problème de F. Hausdorff concernant les fonctions symétriques continues. Bull. Acad. Polon. Sci. Cl. III. 4 (1956), 201-205.

This note settles in the negative one of two problems of Hausdorff [Fund. Math. 25 (1935), 578] by showing that there is no real-valued function symmetrically continuous everywhere and discontinuous at precisely the points of Cantor's ternary set. M. M. Day (Seattle, Wash.)

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*aje*

MARCUS, S.

Marcus, S. Sur un problème de la théorie de la mesure de  
H. Steinhaus et S. Ruziewicz. Bull. Acad. Polon. Sci.  
Cl. III. 4 (1956), 197-199.

A linear set  $E$  is totally asymmetric if, for every  $x \in E$ ,  
there is an  $h(x) > 0$  such that, whenever  $|h| < h(x)$ , either  
 $x-h \notin E$  or  $x+h \notin E$ . It is shown that if  $E$  is totally  
asymmetric it is of interior measure 0; if, in addition, it  
has the property of Baire, it is of the first category.

C. Goffman (Norman, Okla.)

*up*  
*down*  
*left*  
*right*

MARCUS, S

Despre Functiile Lui Hamel. S. Mar-  
cus. Bul. Stiint. Sect. Stiint. Mat. Fiz.  
July-Sept., 1950, pp. 517-528. 43 refs.  
In Rumanian. Study of Hamel func-  
tions included in a class of functions de-  
fined by Császár.

S.M.  
S.M.

MARCUS, S.

Determination of a partially continuous function by values taken on a  
dense set. p. 1563. Academia Republicii Populare Romine. COMUNICARILE.  
Bucuresti. Vol. 5, no. 11, Nov. 1955

So. East European Accessions List Vol. 5, No. 9 September, 1956

Marcus, S

Marcus

Marcus, S. Les ensembles  $F_\sigma$  et la continuité symétrique. Acad. R. P. Roum. Bul. Şti. Sect. Şti. Mat. Fiz. 7 (1955), 871-886. (Romanian. Russian and French summaries)

A real function of a real variable is called symmetrically continuous at  $x$  if and only if  $\lim_{h \rightarrow 0} (f(x+h) - f(x-h)) = 0$ . The author proves that if  $D$  is a real  $F_\sigma$  set, then there is a function  $f$  such that  $D$  is precisely the set of points where  $f$  is not symmetrically continuous. M. M. Day.

MARCUS, S.:  $F_\sigma$  sets and Symetric Continuity

ms

MARCUS, S.

Marcus, S. Quelques ensembles rares dans certains espaces fonctionnels. Com. Acad. R. P. Roumne 3, 291-293 (1955). (Romanian, Russian and French summaries)

The author remarks that certain function spaces are nowhere dense in certain others, where all are subspaces of bounded real functions with least-upper-bound norm.

M. M. Day (Urbana, Ill.).

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1-PR



MARCUS, S.

Math

✓ Marcus, S. Les conditions  $T_1$  de Banach pour les fonctions de deux variables. Rev. Univ. "C. I. Parhon" Politehn. București. Ser. Ști. Nat. 4 (1955), no. 8, 15-22. (Romanian. Russian and French summaries)

The author observes that a theorem of Kronrod and Velskiĭ [Kronrod, Uspehi Mat. Nauk (N.S.) 5 (1950) no. 1 (35): 24-134; MR 11, 648] remains valid with the slightly weaker hypothesis: " $f(x, y)$ , defined in the unit square, satisfies on almost all parallels to the axes the condition  $T_1$  of Banach"; and that its conclusion, which states that "for almost all  $c$  the components of the set  $f(x, y) = c$  are locally connected," may be thought of as one of the various two-dimensional analogues of  $T_1$ . Another theorem of Kronrod is similarly modified and some corollaries and variants are mentioned. L. C. Young.

1955

Wash

Marcus, S.: The conditions  $T$  of Banach for the functions of two variables.

ms

MARCUS, S.

"Über einen Lehrsatz von G. P. Tolstow." Revue de Mathematiques et de Physique,  
Vol. 2, 1954

Marcus, S.

3

REUM. MS

✓ Marcus, S. Propriétés bidimensionnelles, métriques et  
équivalences, des fonctions réelles de deux variables réelles.  
 Acad. Repub. Pop. Roumne, Bul. Sti. Sect. Sti. Mat. Fiz.  
 5, 527-544 (1953). (Romanian. Russian and French  
 summaries)

T = F/W

Real function

The author terms bidimensional limit of  $f(x, y)$  as  
 $(x, y) \rightarrow (a, b)$  the corresponding limit of the expression

$f(x, b) + f(a, y) - f(x, y)$ . He then considers the effect of  
 substituting this notion of limit in various definitions of  
 continuity. The appropriate theorems and the lemmas used  
 in their proofs are stated at length in the summaries.

E. C. Young (Madison, Wis.)

YJ  
form

Marcus, S.

✓ Marcus, S. La dérivée approximative qualitative. Com. Acad. R. P. Române 3 (1953), 361-364. (Romanian. Russian and French summaries)

The author defines for real functions of a real variable the four qualitative approximate derivative numbers by means of the qualitative approximate limits, in the sense of his previous papers [same Com. 3 (1953), 9-12, 117-120; MR 17, 20] of the usual difference quotients. Several results paralleling known theorems for ordinary derivatives are stated; for example, if two continuous functions have the same derivative numbers everywhere in an interval, except possibly at a countable set of points, then the functions differ by a constant.

M. M. Day.

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I - F/W

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RMJ

MARCUS, S.

Marcus, S. La continuité approximative qualitative.  
Com. Acad. R. P. Române 3, 117-120 (1953). (Ro-  
manian. Russian and French summaries)  
Qualitative continuity is defined in terms of the qual-  
itative limit of the preceding review. The author gives  
theorems connecting this with linear continuity of  
domains in the plane, and with the property of Baire for  
functions of a metric space. M. M. Day (Urbana, Ill.).

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MARCUS S

8

Marcus, S. La limite approximative qualitative. Com. Acad. R. P. Române 3, 9-12 (1953). (Romanian. Russian and French summaries)

I - F/W

Define the upper qualitative limit,  $lqs_{x \rightarrow x_0} f(x)$  to be the greatest lower bound of numbers  $y$  for which  $\{x/f(x) > y\}$  is of first category at  $x_0$ , and let  $lqi_{x \rightarrow x_0} f(x) = -lqs_{x \rightarrow x_0} -f(x)$ : when these are equal, the author calls the common value the qualitative limit of  $f(x)$  at  $x_0$ . He states various properties of this operation which resemble those of the approximate limit of Denjoy and Hinčin.  
M. M. Day (Urbana, Ill.)

Raw JPH

MARCUS, S.

Marcus, S. Sur les discontinuités des fonctions de trois  
ou plusieurs variables, à nombres réels, partie conti-  
nue. Com. Acad. R. P. Roumâne 2, 125-126 (1952).  
(Romanian, Russian and French summaries)  
The author generalizes to three variables a result of  
Zolotov (Izv. Akad. Nauk SSR, Ser. Mat. 13, 425-446  
(1949); MR 11, 167) on the size of the set described in  
the title. M. M. Day (Urbana, Ill.)

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MARCUS S.

Marcus, S. Sur un théorème de G. P. Tolstov. Com. Acad. P. Române 2, 5-8 (1952). (Romanian. Russian and French summaries)

Tolstov's theorem says: If  $f(x, y)$  is linearly continuous in a domain  $G$  and if the partial derivative with respect to  $x$  exists for all except possibly a countable set  $E$  of points of  $G$ , then every perfect set  $P$  contained in  $G$  contains a portion on which  $f$  is continuous (in both variables). The present note shows also that (1) the closure of the set of points of discontinuity of  $f$  is non-dense, (2) the set  $E$  of exceptional points is also non-dense, and (3) even if  $E$  is only assumed to be non-dense and  $F_{\sigma}$ , every interval intersecting  $G$  contains a subinterval of points where  $f$  is continuous.

M. M. Day (Urbana, Ill.)

I - F/W

RAW

(1)



HERSENI, T.; MARCUS, S.; TABACHIU, A.

Individual conscience and social conscience. Rev psihologie 11  
no.1:49-58 '65.

1. Institute of Psychology of the Rumanian Academy. Submitted  
May 5, 1964.

NEACSU, Gh.; MARCUS, S.

Manifestations of special typological peculiarities in actors during the process of creation. Rev psihologie 9 no.3:429-446 '63.

MARCUS, S.; NEACSU, G.

Problems of specific human typology of dramatic actors. Rev  
psihologie 9 no.2:291-310 '63.

HERSENI, T.; IOSIF, GH.; MARCUS, S.

Fourth "Collection of Studies" of the Institute of Psychology  
of the Rumanian Academy. Reviewed by T. Herseni, Gh. Iosif,  
S. Marcus. Rev psihologie 9 no.1-159-165 '63.

Country	: Rumania	H-35
Category	:	
Abs. Jour	:	41130
Author	:	
Institut.	:	
Title	:	
Orig Pub.	:	
Abstract	: In both cases a smooth, full leather is obtained which can be used for shoe uppers; however, the physicommechanical properties of the leather produced by the two variants of the process are not uniform. Thus the strength of the leather produced by the first of the above variants is 11-17.5% lower than that of the leather produced by the second variant. This is explained by the fact that preliminary vegetable tanning produces a considerable swelling of the skins and the result is that the number of fibers per unit surface area is decreased even though the absolute strength of the fibers remains unchanged. The selection of the	
Card:	2/3	

Country : Rumania  
Category : R-35  
Abs. Jour : 41130  
Author : Marcus, S.  
Institut. : Not given  
Title : The Production of Leather for Shoe Uppers from  
the Bellies and Shanks of Heavy Hides  
Orig Pub. : Ind Usoara, 5, No 2, 324-329 (1958)  
Abstract : The author analyzes the difficulties encountered  
in the processing of the bellies and shanks cropped  
from heavy hides into leather for shoe uppers and  
discusses methods of solving this problem which  
is becoming of greater importance in view of the  
increasing use of synthetic materials in sole  
leather applications. A method of utilizing these  
'bends' has been developed and tested under produc-  
tion conditions. The method provides for two  
variants: preliminary vegetable vat tanning with  
subsequent chrome tanning in drums and chrome tan-  
ning in drums with subsequent vegetable vat tanning.

Card: 1/3

H-214

MARGUS, S.

Antiseptic and fungicidal agents in the leather industry.

B. 24 (INDUSTRIA ROMANA) (Bucharest, Rumania) Vol. 5, no. 1, Jan 1968

SO: Monthly Index of East European Accessions (MIEA) 17 Vol. 7, No. 7, 1968

RIMANLA/Chemical Technology - Chemical Products and Their  
Application - Leather. Fur. Gelatin. Tanning  
Agents. Technical Proteins.

ii.

Abs Jour : Ref Zhur - Khimiya, No 9, 1953, 31134

Author : Marcus, S.

Inst :

Title : The Part Played by Bacteria in the Leather Industry.

Orig Pub : Ind Usbura, 4, No 7, 300-302, 1957.

Abstract : The part played by microorganisms in the processing of  
leather goods, the methods used in combating harmful  
bacteria, and some production processes are discussed.  
The possibility of using bacteria in the separation of  
the pelts from the raw skins is also explored.

Card 1/1



MARCUS, S.

"Replacement of outdated technological processes with new ones in the leather, rubber, and glass industries; achievements and concerns of the Research Institute for Leather, Rubber, and Glass."

p. 194 (Industria Usoara) Vo. 4, no. 5, May 1957  
Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

RUSSIA/Chemical Technology. Chemical Products and Their  
Applications. Leather. Fur. Gelatin. Tanning  
Materials. Industrial Proteins.

H

Russ Jour: Red Zhur-Khizh, No 6, 1959, 20931.

Lining compositions were tested:  $\text{Ca}(\text{OH})_2$  alone,  
 $\text{Na}_2\text{S}$  alone, and  $\text{NaHS}$  alone, and  $\text{Ca}(\text{OH})_2$  with the  
addition of  $\text{Na}_2\text{S}$ ,  $\text{NaHS}$ ,  $\text{Ca}(\text{HS})_2$ ,  $\text{As}_2\text{S}_3$ , amines,  
or cyanides. -- G. Markus.

Card : 2/2

332

RUMANIA/Chemical Technology. Chemical Products and Their  
Applications. Leather. Fur. Gelatin. Tanning  
Materials. Industrial Proteins.

H

Abs Jour: Ref Zhur-Khim., No 8, 1959, 29931.

Author : Marcus, S.

Inst :

Title : On the Chemical Reactions Taking Place in Line Pits.

Orig Pub: II-a Confer Tehn-Stiint a Ind Usoare Piele, Cauciuc,  
Sticla (Bucuresti) ASIT, 93-97 (1957) (in Rumanian)

Abstract: The author examines the reactions taking place between  
the substances used in the lining of the skins and  
the effects on their solubility and on the pH of the  
solution as well as their effect on the degree of  
swelling and of unhairing of the skins. The following

Card : 1/2

MARCUS, S.

RUMBLE/Chemical Technology. Chemical Products and Their Applications. Leather. Fur. Gelatin. Tanning Materials. Industrial Proteins.

H

Abs Jour: Ref Zhur-Khiz., No 3, 1959, 29934.

Author : Marcus, S. and Sucitulescu, I.

Inst :

Title : New Methods of Processing Leather for Gloves.

Orig Pub: II-a Conf Tehn-Stiant a Ind Uscare Piele, Cauciuc, Sticla (Bucuresti), IAST, 87-92 (1957) (in Rumanian)

Abstract: The authors discuss the development of the production technology of glove leather made necessary by the search for a simpler, more profitable, and more easily controlled substitute for the kid-leather tanning process. The results obtained from the kid-

Card : 1/2

RUMANIA/Chemical Technology. Chemical Products  
and Their Applications. Leather. Furs.  
Gelatin. Tanning Materials. Industrial  
Proteins.

H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21962

Yield of prepared T is respectively 65.5  
and 68.3 percent. The following average  
physicomechanical indicators are obtained  
for leather tanned with fresh and spent  
juices: thickness 5.45 and 5.70 mm; length  
at break 16.00 and 18.00 percent; resis-  
tance limit to stretching 1.96 and 2.37  
kg/mm<sup>2</sup>; absorption of water in 2 and 24  
hours - 26.00, 42.80 and 17.10, 33.00;  
wear (in percent converted to 5 mm thick-  
ness) 9.60 and 5.80; wear (in mm<sup>3</sup>/cm<sup>2</sup>)  
48.00 and 25.50. To obtain L with increased

Card : 3/4

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RUMANIA/Chemical Technology. Chemical Products and Their Applications. Leather. Furs. Gelatin. Tanning Materials. Industrial Proteins. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21962

been tanned with chromium salts, absorbs more tannids (T) from spent juices of vegetable tanning materials (which contain small dispersed particles of tanning material) in comparison with fresh juices (which contain a significant quantity of larger particles). In L tanned only with vegetable T, the total quantity of absorbed T is greater during treatment with fresh juices. Total quantity of absorbed T of fresh and spent juices comprised respectively 368 and 406.3 g T per 1 kg gelatin.

Card : 2/4

RUMANIA/Chemical Technology. Chemical Products and Their Applications. Leather. Furs. Gelatin. Tanning Materials. Industrial Proteins. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21962

Author : Petraru-Heller, Cornelia; Marcus, S.; Konnerth, C.

Inst : -

Title : Influence of Mineral Tanning on Absorption of Tanning Substances During Vegetable Tanning.

Orig Pub : II-a Conf. tehn-stiint. a ind. usoare. Piele-Cauciuc-Sticla [Bucuresti], ASIT, 1957, 36-39

Abstract : It is shown that leather (L) which has first

Card : 1/4

H-173





MARCUS, N.; PUNGAN, V., MIFON, C., OPETSON, R.

Treatment of chronic hepatitis. III. Influence of androgenic testosterone derivatives on the evolution of chronic hepatitis. Stud. cercet. med. intern. 5 no.4:389-396 1962.

MARCUS, N.; GHEORGHIU, T.; VLADESCU, C.

Research on glucurono-conjugation in normal subjects and in chronic liver diseases. Stud. cercet. med. intern. 4 no.4: 525-528 '63.

(LIVER DISEASES) (LIVER FUNCTION TESTS)  
(GLUCURONATES) (URINE)

PAUN, R., conf.; MARCUS, N., dr.; ILIE, E., dr.; OLINESCU, R., chim.;  
PAPAGHEORGHE, Camelia, chim.; LAZAROVICI, Miriam, chim.;  
CRISTESCU, Marcela, chim.

Coproporphyrinuria in chronic hepatitis. Med. intern. 15 no.6:  
687-693 Je '63.

1. Lucrare efectuata in Institutul de medicina interna al  
Academiei R.P.R. si Ministerul Sanatatii si Prevederilor Sociale,  
Bucuresti (director: acad. N.Gh. Lupu).  
(HEPATITIS) (PORPHYRINS) (URINE)  
(KIDNEY FUNCTION TESTS)

MARCUS, N.; PAUN, R.; GHEORGHIU, T.; CIOBANU, Florina

Investigations of the functional state of the exocrine pancreas  
in post-viral chronic hepatitis. Stud cercet med intern 4 no.3:  
317-325 '63.

(HEPATITIS) (GASTROENTEROLOGY) (PANCREATIC JUICE)  
(AMYLASE) (LIPASE) (TRYPSIN)

LUPU, N..Gh., academician; RUNCAN, V.; POPESCU, Gr. I.; MARCUS, N.;  
POPESCU, T.

Prevention and treatment of chronic hepatitis following  
epidemic hepatitis. Stud cercet med intern 4 no.3:285-293  
'63.

(HEPATITIS) (HEPATITIS, INFECTIOUS)

MARCUS, N.

Mucaine in the treatment of disorders of the digestive tract.  
Stud. cercet. med. intern. 4 no.2:255-258 '63.  
(GASTROENTEROLOGY) (ANESTHETICS, LOCAL)  
(ANTACIDS) (MAGNESIUM OXIDE)

PAUN, R., conf.; MARCUS, N., dr.; ILIE, E., dr.; LAZAROVICI, M., chim.

Investigations of the metabolism of oxalic acid during chronic liver diseases. III. Investigations on renal clearance of oxalic acid in liver diseases. Med. intern. 14 no.12:1479-1485 D '62.

1. Clinica medicala "Colentina" (director: acad. N. Gh. Lupu)  
I.M.F., Bucuresti.

(OXALATES) (URINE) (HEPATITIS) (URINARY CALCULI)

PAUN, R., dr.; MARCUS, N., dr.; ILIE, E., dr.; LAZAROVICI, M., chimist

Contribution to the relation of oxalic acid metabolism and hepatic diseases. II. Investigations of oxalemia and oxaluria in chronic hepatitis. Med. intern. 14 no.4:455-460 Ap '62.

1. Lucrare efectuata in Clinica I medicala, I.M.F., Bucuresti  
(director: acad. N.Gh. Lupu).

(OXALATES) (BLOOD) (URINE) (HEPATITIS) (URINARY CALCULI)



MARCUS, N.; PAUN, R.; ZAMFIRESCU-GHEORGHIU, Marcela; URSEA, N.

Correlations between gastric secretion and uropepsinogen in chronic hepatitis. Stud. cercet. med. intern. 3 no.3:367-372 '62.  
(HEPATITIS chemistry) (UROPEPSIN metabolism)  
(GASTRIC JUICE chemistry) (ADRENAL CORTEX HORMONES pharmacology)

LUFU, N, Gh., academician; PAUN, R.; POPESCU, Gr.; OLARU, Cornelia; MARCUS, N.;  
BADANOIU, Al.; MATEI, I.

Investigations of the secondary reactions observed in auxiliary health  
personnel after handling antibiotics (penicillin, streptomycin). Stud.  
cercet. med. intern. 3 no.3:335-342 '62.

(ANTIBIOTICS toxicology) (ALLERGY)  
(OCCUPATIONAL DISEASES) (HOSPITALS)

LUPU, N.Gh., acad.; PAUN, R., dr.; POPESCU, I.Gr., dr.; MARCUS, N., dr.

Incidents and complications in anti-infectious chemotherapy.  
Med. inter., Bucur 13 no.6:803-825 Je '61.

1. Institutul de medicina interna al Academiei R.P.R. si M.S.P.S.  
(INFECTION therapy) (ANTIBIOTICS toxicology)  
(SULFONAMIDES toxicology) (ALLERGY)

LUPU, N.Gh., acad.; RUNCAN, V., dr.; POPESCU, I.Gr., dr.; MARCUS, N., dr.;  
POPESCU, T., dr.

Considerations on the treatment of chronic hepatitis following epidemic hepatitis. Med. intern., Bucur 13 no.4:523-532 Ap '61.

1. Lucrare efectuata in Institutul de medicina interna al Academiei R.P.R. si al Ministerului Sanatatii si Prevederilor Sociale (director: acad. N. Gh. Lupu).  
(HEPATITIS therapy) (HEPATITIS, INFECTIOUS complications)

LUFU, N.G., acad.; PAUN, R.; POPESCU, I.Gr.; MARCUS, N.

Clinical observations on severe accidents following penicillin administration. Rumanian M Rev. no.3:24-26 '61.  
(PENICILLIN toxicology) (ALLERGY case reports)

STEINBACH, M.; DOBREANU-ENESCU, Viorica; CHITESCU, Elena; MARCUS, N.; IOTA, C. G.

Treatment of arterial hypertension with heparin. Stud. cercet. med.  
intern. 2 no.5:671-679 '61.

(HYPERTENSION therapy) (HEPARIN therapy)

LUFU, N. Gh., acad.; RUNCAN, V.; ZAMFIRESCU-GHEORGHIU, Marcela; PAPPO, A.;  
MARCUS, N.; MIRON, C.; VELICAN, Doina; URSEA, N.; VLADESCU, C.

The value of several enzyme tests as compared with biological and chemical tests in the early diagnosis of post-viral chronic hepatitis. Stud. cercet. med. intern. 2 no.5:653-661 '61.

(HEPATITIS, INFECTIOUS diagnosis)  
(TRANSAMINASES blood)  
(ALDOLASE blood  
(BLOOD PROTEINS chemistry)  
(ELECTROPHORESIS) (LIVER FUNCTION TESTS)

MARCUS, N.; PAUN, R.; URSEA, N.; POPESCU, T.; SUTEANU, St.

Investigation of gastric secretion in chronic hepatitis. Stud.  
cercet. med. intern. 2 no.3:395-399 '61.  
(HEPATITIS physiology) (GASTRIC JUICE chemistry)



PAUN, R.; MARCUS, N.; GEORGESCU, Mircea

Gastric secretion and motility in liver cirrhosis. Stud. cercet.  
med. intern. 2 no.1:55-62 '61.

(LIVER CIRRHOSIS physiology) (STOMACH physiology)  
(GASTRIC JUICE)

LUPU, N.Ch., acad.; PAUN, R, dr.; POPESCU, Gr.I., dr.; MARCUS, N., dr.

Clinical observations on some severe complications of penicillin  
therapy. Med. intern., Bucur 12 no.12:1780-1787 D '60.  
(PENICILLIN toxicology) (ALLERGY case reports)

LUPU, N. Gh., acad.; MIHAIESCU, C.; PAPAZIAN, R.; GROZA, P.; MIHAIESCU, Edith;  
MARCUS, N.

Modifications of the hydric compartments in hypertonic patients  
put on a low sodium diet. Rumanian M. Rev. 3 no. 3:56-59 JI.-S '59.

1. Therapeutic Institute of the R.P.R. Academy.  
(HYPERTENSION, nutrition & diet)  
(DIET, SALT FREE)  
(SODIUM)  
(WATER, metabolism)

EXCERPTA MEDICA Sec 2 Vol 12/10 Physiology Oct 59

4713. PHYSICOCHEMICAL INVESTIGATIONS OF ERYTHROCYTE MEMBRANES -  
Teitel A. and Marcus N. Lab. of Pharmacol., Fac. of Med., Bucha-  
rest - NATURE (Lond.) 1958, 181/4610 (714-715)

Experiments to demonstrate the erythrocyte membrane are described. The mem-  
brane appears to be fluid and unorganized, like any other myelin sphere consisting  
of fluid or semi-fluid lipids.  
Hasché - Jönköping

MARCUS, N.

PAUN, R.;STOICHITA, Michaela;MARCUS, N.

Clinical contributions to the problem of thrombocythemia. Med. int.,  
Bucur. 9 no.6:931-938 June 57.

1. Lucrare efecuta in Clinica medicala a Spitalului "Colentina"  
(Director: acad. N. Gh. Jupu)

(BLOOD PLATELETS

thrombocythemia, essential hemorrh., etiol. & ther.)

LUPU, N., Gh., Acad.; MARCUS, N., dr.; ENESCU, V., dr.

Therapy of hypertensive diseases. Med. int., Bucur. 8 no.3:  
329-338 July 56.

1. Lucrare efectuata in Clinica I medicala "Colentina."  
(HYPERTENSION, therapy  
indic.)

MARCUS, N.

KLEINERMAN, L.; ~~MARCUS, N.~~; SAHLEANU, V.

Arterial tension in workers in small industry. Probl. ter.,  
Bucur. 4:89-99 1956.

(HYPERTENSION, statistics

in workers in small indust. in Rumania)

(OCCUPATIONAL DISEASES

hypertension, in workers in small indust., incidence  
in Rumania)

(BLOOD PRESSURE

in workers in small indust. in Rumania, normal levels  
& incidence of hypertension)

ENESCU, Viorica; MARCUS, Nicolae; EPURAN, Gheorghe

Changes in the electrocardiogram during protoveratrine therapy of hypertensive diseases. Probl. ter., Bucur. 4: 71-88 1956.

1. Institutul de terapeutic al Academiei R.P.R., Sectia de la Spitalul Colentina.

(HYPERTENSION, therapy

protoveratrine, eff. on ECG)

(VERATRUM ALKALOIDS, ther. use

protoveratrine, in hypertension, eff. on ECG)

(ELECTROCARDIOGRAPHY, eff. of drugs on

protoveratrine in ther. of hypertension)



*MARCUS, Nicolae*

ENESCU, Viorica; MARCUS, Nicolae

Hemodynamic changes observed after protoveratrine therapy of hypertensive diseases. Probl. ter., Bucur. 4:55-69 1956.

(HYPERTENSION, therapy

protoveratrine, eff. on arterial elasticity & mechanism of action)

(VERATRUM ALKALOIDS, ther. use

protoveratrine, in hypertension, eff. on arterial elasticity & mechanism of action.)

LUFU, N.G.; MARCUS, N.; PAPAIZIAN, R.; POPESCU, I.; GEIB, R.; KNESCU, V.

Protovertrine therapy of hypertensive disorders. Probl. ter.,  
Bucur. 4:47-54 1956.

1. Institutul de terapeutica al Academiei R.P.R., Sectia de  
medicina interna de la Spitalul Colentina.

(HYPERTENSION, ther.  
protoveratrine)

(VERATRUM ALKALOIDS, ther. use  
protoveratrine in hypertension)

MARCUSH

RUMANIA/Pharmacology, Toxicology. Ganglioblocking Drugs

U-4

Abs Jour : Ref Zhur - Biol., No 4, 1958, No 17606

Author : Kleinerman, Marcush, Georgescu

Inst : Not Given

Title : The Effect of Hexamethonium Bromide on Pulmonary Hypertension  
and Acute Experimental Pulmonary Edema

Orig Pub : Fiziol. norm. shi patol., 1956, 3, No 4, 445-451

Abstract : Hexamethonium bromide had no effect on experimental pulmonary hypertension and acute pulmonary edema. In mitral stenosis or cardiac insufficiency it induced a fall in pressure in the systemic and pulmonary blood circulations in pulmonary hypertension and pulmonary edema.

Card : 1/1

KLEINERMAN, L.; MARCUS, N.; GEORGESCU, M.; ENESCU, V.; VULPESCU, S.

Changes in the systolic output and heart volume under the influence of adrenalin and Starling's law. Probl.ter.,Bucur. 2:33-44 1955.

1. Institutul de terapeutica al Academiei R.P.R., section de boli interne din Spitalul Colentina si Spitalul Bernat Andrei.

(HEART, eff. of drugs on epinephrine, causing changes in systolic output & heart volume)

(EPINEPHRINE, eff. on heart volume & systolic output)

MARCUS, J.

RUMANIA/Organic Chemistry - Synthetic Organic Chemistry...

G-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25199

Author : Marcus, J.

Inst : -

Title : Pentamethylene Tetrazole

Orig Pub : Rev. chim., 1957, 8, No 1, 29-31

Abstract : A review of the methods of synthesis of pentamethylene tetrazole.  
Bibliography 17 references.

Card 1/1

Marcus, J.

The pentamethylenetetraole.

J. 23 (REVISTA DE CHINA) (Macauite, Sumatra) Vol. 7, No. 1, Jan. 1967

30: Monthly Index of East European Accessions (1947) 17 Vol. 7, No. 7, 1967

MARCUS, J.; BARDEANU, A.; TEODORESCU, Z.

"Separation of adjacent metaxylydines."

p. 109 (Revista De Chimie' Vol. 7, no. 2, Feb. 1956  
Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

MARCUS, J.

Synthetic detergents. J. Marcus (Pharm. Chem. Inst.,  
Bucharest). *Rev. chim. (Bucharest)* 6, 487-52 (1956).—A  
review. Cary Cerant



RUMANIA

GORCEA, V., Dr, Lt-Col, and MARCUS, I., Dr [Affiliation not given]

"Considerations on the Cytology of Tuberculous Pleural Exudates"

Bucharest, Revista Sanitara Militara, Vol 62, No 2, Mar-Apr 66, pp 257-261

Abstract: A cytological study of the elements in the pleural fluid exuded by tuberculous patients, with a view to using the structure of the exudate as an aid in diagnosis and prognosis. In the samples studied, eosinophilic types occurred in 7% of the cases, eosino-lymphocytic ones in 10%, lymphocytic ones in 80%, neutrophil serous types in 1% and mononuclear types in 2% of the cases.

Includes 5 references, of which 2 are Rumanian, 2 German, and one French. Manuscript submitted 15 September 1965.

1/1

MARCHIS, F.

One of Fubini's problems. Pt.2. Studi mat lasi 14 no. 2.  
311-330 '63.

MARCUS, F.

On the period 4 Laplace cycles. Studii mat Iasi 14 no.1:127-  
162 '63.

MARCUS, F.

On surfaces which admit a continuous group of projective deformations  
in themselves. Studii mat Iasi 13 no.2:307-311 '62.

MARCUS, F.

About the conformal projective infinitesimal transformations  
of a surface on itself. Studii mat Iasi 13 no.1:109-128  
'62.

MARCUS, F.

On the surfaces admitting similar projective infinitesimal deformations. Studii mat Iasi 12 no.2:291-314 '61.

MARCUS, F.

Projective properties of the infinitesimal deformations of a surface  
in itself. Studii mat Iasi 12 no.1:69-94 '61.

MARCUS, F.

On one of E. Cech's problems. p. 73

Academia Republicii Populare Romine. Filiala Iasi. STUDII SI  
CERCETARI STIINTIFICE. MATEMATICA. Iasi, Rumania. Vol 9, no. 1  
1958

Monthly list of East European Accessions (EEAI) LC Vol 8, No. 6, June 1959  
Uncl.



MARCUS, F.

Complements to some results in projective differential geometry.  
p. 37

Academia Republicii Populare Romine. Filiala Iasi. STUDII SI  
CERCETARI STIINTIFICE. MATEMATICA. Iasi, Rumania. Vol. 8, no. 1  
1957

Monthly list of East European Accessions (EEAI) LC Vol 8, No. 6, June 1959  
Uncl.

Surfaces Which Are Minimal in the Projective Sense as Well as in the Euclidean Sense

✓ Marcus, E. Surfaces minima projectives qui sont simultanément minima euclidiennes. Acad. R. P. Roumne. Fil. Iași. Stud. Cerc. Ști. Mat. 8 (1957), no. 1, 19-36. (Romanian. Russian and French summaries)

2  
I-F/W

It is shown that a minimal Euclidean surface which has a family of lines of curvature consisting of geodesics is minimal affine if it is minimal geodesic, and conversely. This suggests looking for the surfaces which are minimal in the euclidean, affine, and projective senses. The equations of these surfaces are found in finite form. The surfaces are imaginary and have first fundamental form  $ds^2 = (Au + Bv + C)^2(du^2 + dv^2)$ , with constants  $A, B, C$  such that  $A^2 + B^2 + 1 = 0$ , when referred to their asymptotic curves. These surfaces belong to a class described by Tziteica-Wilczynski; they are also of the third type of Terracini; they are also such that their Euclidean normals are principal lines of Fubini.

The author has defined *I*-congruences [same Stud. 3 (1952)] formed by normals to minimal surfaces and having minimal surfaces for focal nappes. The mean surface of an *I*-congruence is a minimal surface in the euclidean, affine, and projective sense, and conversely.

JR  
41

A. Schwartz (New York, N.Y.)

MARCUS, F.

Marcus R. Une nouvelle caractérisation des réseaux et surfaces  $\mathcal{E}$  de Cartan. Czechoslovak Math. J. 7(82) (1957), 308-313. (Russian summary)

E. Cartan a démontré l'existence d'une classe de surfaces douées d'un réseau conjugué tel que  $h = \bar{h}, k = \bar{k}, h, k, \bar{h}, \bar{k}$  étant les invariants des équations ponctuelles et tangentielles de Laplace correspondantes. Ces réseaux et les surfaces respectives sont nommés, par E. Cartan, réseaux et surfaces  $\mathcal{E}$ . Dans l'article présent l'auteur caractérise les réseaux et surfaces en question de la manière suivante: Si les lignes d'un réseau conjugué sont des pangéodésiques, le réseau et la surface appartiennent à la classe  $\mathcal{E}$ .

O. Borůvka (Brno)

MRI  
1/1

gmd

MARCUS, F.

The Koenigh networks,. In French. p. 55.

REVUE DE MATHÉMATIQUES PURES ET APPLIQUÉES. JOURNAL OF PURE AND APPLIED  
MATHEMATICS. (Academia Republicii Populare Romine) Bucuresti. Romania.  
Vol. 2, 1957

Monthly List of East European Accessions(BEAL) LC Vol. 9, no. 1, January 1960.  
UNCL