LEITNER, Margit, dr.

Rehabilitation of tuberculous patients in dispensary of the village Morahalom. Nepegeszsegugy 35 no.6:156-157 June 54.
(TUBERCULOSIS,
rehabil. in Hungary)
(REHABILITATION, in various diseases,
tuberc., in Hungary)

Górski, Jerzy. Remarque sur le diamètre transfini des ensembles plans. Ann. Soc. Polon. Math. 23, 90–94 (1950).

Leitner, Roman. Sur une propriété des ensembles plans de diamètre transfini nul. Ann. Soc. Polon. Math. 23, 183–189 (1950).

Terasaka, Hidetaka. Solution of a problem of M. F. Leja. Ann. Soc. Polon. Math. 23, 201–204 (1950).

Leja, F. Remarque sur la note précédente. Ann. Soc. Polon. Math. 23, 204–205 (1950).

Let $\rho(p, q)$ be the distance function, $\rho(p, q) = \log \rho(p, q)$ and $\frac{1}{2}n(n-1)g(p_1, \cdots, p_n) = \sum_{i<j} g(p_i, p_j)$. For an infinite closed bounded plane set E let g_n be the maximum of $g(p_1, \cdots, p_n)$ for points $p_i \in E$ and let $q^{(n)} = (q_1^{(n)}, \cdots, q_n^{(n)})$ be an extremal set. Let $(n-1)g_1(q^{(n)}) = \sum_{j \neq 1} g(q_1^{(n)}, q_j^{(n)})$ and suppose the $q_i^{(n)}$ so ordered that $g_1(q^{(n)}) \leqq g_i(q^{(n)})$ for $i<j$. Also let $ng_n(z) = \sum_i g(q_i^{(n)}, z)$ for z outside E.

Leja had shown [same Ann. 18, 4–11 (1945); these Rev. 8, 255] that (i) $g_1(q^{(n)}) \to g(\tau)$ as $n \to \infty$, where τ is the transfinite diameter of E, (ii) if $\tau > 0$ then $g_n(z)$ converges as $n \to \infty$, the limit being then a Green's function.

Górski proves that $g_n(q^{(n)}) \to g(\tau)$ if E is a sum of continua, but not if E is a segment plus a suitable isolated point.

Leitner constructs a denumerable set E, having only two limit points, for which $g_n(z)$ does not converge as $n \to \infty$.

Terasaka constructs a similar example to Leitner's for the 3-dimensional potential $g(p, q) = -1/\rho(p, q)$. Leja remarks that the analogue for this potential of his (ii) has not been proved.

H. D. Ursell (Leeds).

Source: Mathematical Reviews, Vol 12, No. 9.

LEITNER, V.

"Full Mechanization of Production in Forges and Presses." p. 165,
(MECHANISACE, Vol. 2, No. 4, Apr. 1953, Praha, Czechoslovakia)

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

LEITNER, V.

"Planning automation of the machinery industry in the USSR." p. 241.

STROJIRENSKA VYROBA. (MINISTERSTVO TEZKEHO STROJIRENSTVI, MINISTERSTVO PRESNEHO STROJIRENSTVI A MINISTERSTVO AUTOMOBILOVEHO PRUMYSLU A ZEMEDELSKYCH STROJU.) Praha, Czechoslovakia, Vol. 7, no. 6, June 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959. Uncl.

L'ITO, E.

AGRICULTURE

Periodical: SOTSIALISTIK POLUMAJANDUS Vol. 14, no. 1, Jan. 1959

L'ITO, E. From the 1958 Brussels International Exhibition. (To be contd.) p. 34

Monthly List of East European Accessions (EEAI) LC, Vol. , No. 5, May 1959, Unclass.

LEITC, E.

AGRICULTURE

Periodical: SOTSIALISTLIK POLLUMAJANDUS Vol. 14, no. 2, Jan. 1959

LEITC, E. From the 1958 Brussels International Exhibition. (Conclusion) p. 95.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclass.

LEITOLD, Ferenc

Synthesis and analysis of lead cyanide powder dyes. Veszprem vegyip egy kozl 4 no.4:351-352 '60

1. Petohazi Cukorgyar.

IRVAKTIJA, I.

Argyresthia conjugella Zell. and the ways of controlling it. p.512

SOTSIALISTLIK POLLUMAJANDUS. Tallin, Estonia. Vol. 14, no. 11, June 1959

Monthly List of East European Accessions, (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

VELMANN, E., otv. red.; MARLAND, A., red.; EENLAID, A., red.; RANDALU, I., red.; NURMISTE, B., red.; LEIVATEGIJA, L., red.; LEVIN, M., red.

[Collection of reports of the Scientific Conference on the Protection of Plants] Sbornik dokladov.Nauchnoy konferentsii po zashchite rastenii, 3, Tallinn, 1960. n.p. Estonskii nauchno-issl. in-t zemledeliia i melioratsii, 1962. 463 p. (MIRA 15:5)

1. Nauchnaya konferentsiya po zashchite rasteniy, 3d, Tallinn,1960. (Russia, Northwestern--Plants, Protection of--Congresses)

AAMISEPP, I.; EICHENBAUM, E.; HALLER, E.; KAARLI, K.; KIIK, H.; KIVI, V.; KOTKAS, H.; KONNUS, H.; LEIVATEGIJA, L.; LIIV, J.; LÄNTS, L.; MÄLKSOO, A.; PEDAJA, V.; POLMA, H.; RANDALU, I.; RUUGE, J.; SEKSEL, H.; TOOMRE, R.; TUPITS, H.; TUUL, S.; TÕNISSON, H.; TÄÄGER, A.; VIIRAND, M.; VAHEMÕNM, K.; ARAK, A., red.

[Plant breeding] Taimekasvatus. Tallinn, Eesti Raamat, 1964. 813 p. [In Estonian] (MIRA 18:1)

LEIVATEGIJA, V.

A conference on the protection of plants. p. 140.

SOTSIALISTLIK POLLUMAJANDUS. (Pollumajanduse Ministeerium) Tallinn, Estonia. Vol. 13, no. 3, March 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11, November 1959.

Uncl.

LEIXNER, V.

Some possibilities of using the fly ash from the Vitezny unor Power Plant in Ostrava. Stavivo 41 no. 12: 440-441 D '63.

1. Pozemni stavby, n.p., Ostrava.

POKROVSKIY, S.N.; LEIZERMAN, L.I.; MITARNOVSKIY, V.M.

Course of malaria control in the R.S.F.S.R. during 1959.
Med.paraz.i paraz.bol. 29 no.5:516-521 S-O '60. (MIRA 13:12)

1. Iz Respublikanskogo nauchno-issledovatel'skogo instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR (dir. instituta - prof. S.N. Pokrovskiy).
(MALARIA)

TOMA, A.; LEIZEROVICI, L.; PETREANU, C.; TONESCU, C.; CUCU, P.

Separation of tuberculous allergy into tuberculin allergy and allergy to B.C.G. bodies; priority of Rumanian research. Bul. stiint., sect. med. 9 no.1:163-170 1957.

(TUBERCULIN REACTION
difference in tuberculin allergy & allergy to B.C.G. bodies, discovery by Rumanians)

BUMBACESCU,N.,prof.; LEIZEROVICI,L.

Contributions to oral vaccination with large doses of B.C.G.
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(BCG VACCINATION)

LEJA, F.

2

Leja, F. Sur le domaine de convergence des séries de polynômes homogènes à deux variables. Ann. Acad. Polonaise Sci. Tech. Varsovie 7, 9 pp. (1945).

The author restates and supplements some of his previous results about convergence of power series in several variables [Rend. Circ. Mat. Palermo 56, 419–445 (1932); Ann. Soc. Polon. Math. 12, 79–84 (1934)]. In Euclidean E_n take a sequence of homogeneous polynomials $P_n(x)$, $n=0, 1, \ldots$, and a point set D, and assume that on D either the series $\sum_0^\infty P_n(x)$ converges or the sequence is bounded. Assume the latter; thus $|P_n(x)| \leqq N$ for x in D. The question then is: for what D will the series converge absolutely in a neighborhood of the origin? To answer it, take n points $\xi^1, \ldots, \xi^n$ in D, set up the Lagrange interpolation formula $P_n(x)=\sum_{j=1}^n P_n(\xi^j)\Delta_n j(x)/\Delta_n j(\xi^j)$ and estimate thus: $M^{-1}P_n(x) \leqq \sum_{j=1}^n |\Delta_n j(x)|/|\Delta_n j(\xi^j)|$. The decisive thing then is to keep the nth root of $\sum_{j=1}^n |\Delta_n j(\xi^j)|^{-1}$ below a fixed bound, or, what is the same, to keep its reciprocal away from 0. This then is expressible as a requirement that a certain "capacity" of the point set D relative to the origin, and definable for any E_n has a strictly positive value. The author's investigations have some connection with (although they are by no means a substitute for) Hartogs' theorem on the continuity of a function in several variables which is assumed to be analytic in each variable separately.

S. Bochner (Princeton, N. J.).

Source: Mathematical Reviews, Vol 10 No. 2

LEJA, F.

Leja, F. Sur les suites de polynômes et la fonction de ~~Green~~ généralisée. I. Ann. Soc. Polon. Math. 18, 4–11 (1945).

Let E be a closed and bounded set, $D(E)$ the component of the complement of E containing the point at infinity, F the boundary of $D(E)$. Let z_0 be a point of F with the following property: if $V(z_0)$ is an arbitrary closed neighborhood of z_0, the transfinite diameter of $F \cdot V(z_0)$ is positive. Let P be the set of such z_0. Then the transfinite diameter of F coincides with that of P. Other theorems involving this set P are also proved. *G. Szegö.*

Source: Mathematical Reviews, Vol 8, No. 5

LEJA, F.

Leja, F. Sur un problème de l'interpolation. Ann. Soc. Polon. Math. 18, 123–128 (1945).

Soit $f(x)$ une fonction continue pour $0 \leqq x \leqq 1$; pour toute valeur de n $(=1, 2, \cdots)$ on donne: (1) $n+1$ nombres $\xi_{k,n}$ $(0 \leqq \xi_{k,n} \leqq 1, \xi_{k,n} < \xi_{k+1,n})$, la distance maxima entre deux de ces points tendant vers zéro lorsque n augmente indéfiniment, (2) $n+1$ fonctions continues $P_{k,n}(x)$, et on considère la suite de fonctions $\pi_n(x) = \sum_{k=0}^{n} f(\xi_{k,n}) P_{k,n}(x)$. La suite $\pi_n(x)$ converge uniformément vers $f(x)$ si: (1) $\lim_{n\to\infty} \sum_{k=0}^{n} P_{k,n}(x) = 1$ (uniformément); (2) quel que soit l'intervalle fermé $[\alpha, \beta]$ dans $[0, 1]$, $\sum_{(\alpha,\beta)} |P_{k,n}(x)|$ étendue à tous les indices k pour lesquels $\xi_{k,n}$ appartient à $[\alpha, \beta]$ tend uniformément vers zéro dans tout intervalle partiel de $[0, 1]$ extérieur à $[\alpha, \beta]$; (3) il existe un nombre M, indépendant de n, tel que $\sum_{k=0}^{n} |P_{k,n}(x)| < M$. Ce résultat a déjà été obtenue par le rapporteur [J. Math. Pures Appl. (9) 23, 219–247 (1944), en particulier, pp. 223–224; ces Rev. 7, 436]. L'auteur montre ensuite que la méthode d'interpolation de Lagrange ne satisfait pas à l'hypothèse (3). *J. Favard* (Paris).

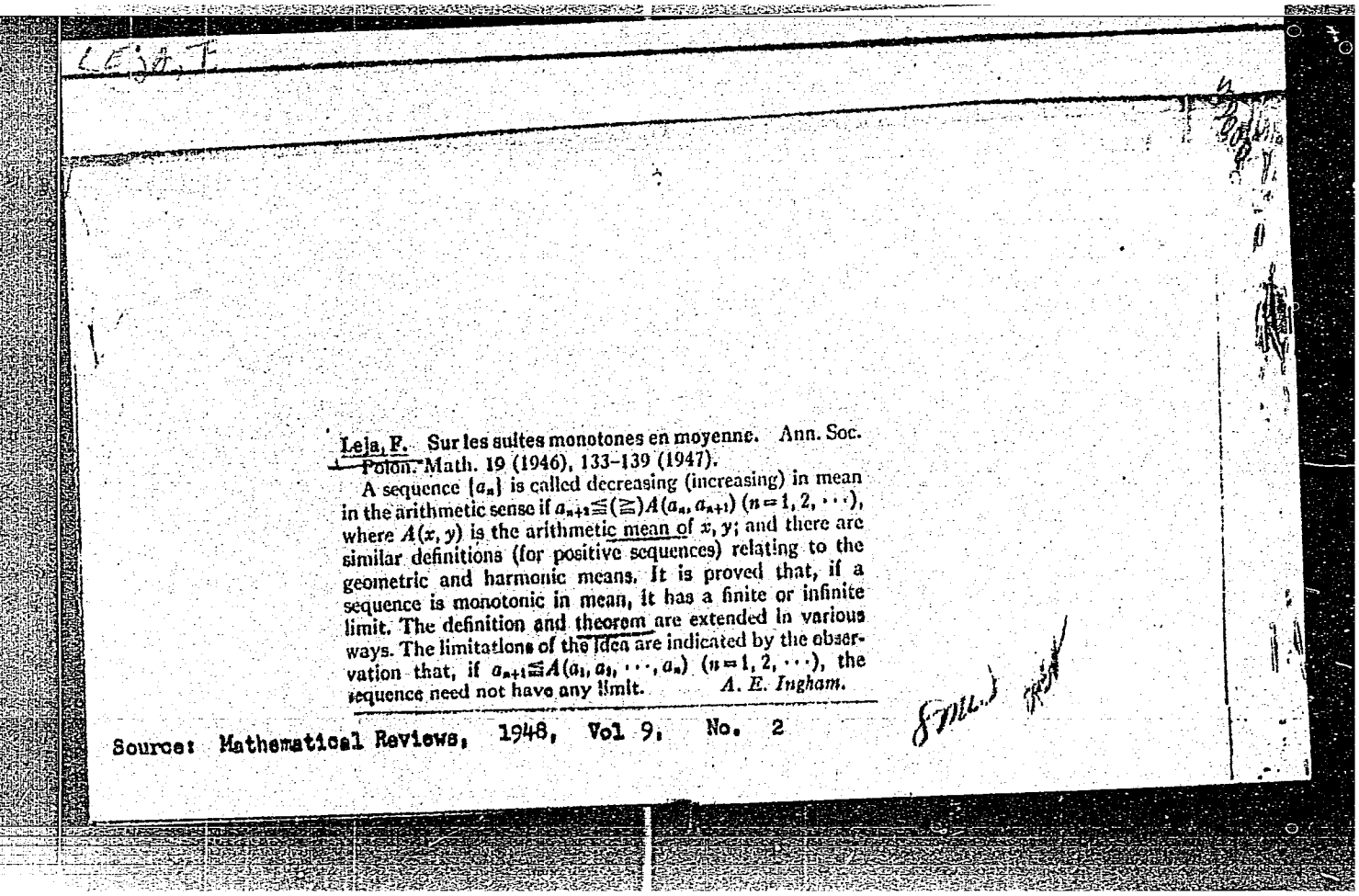
Source: Mathematical Reviews, Vol 8, No. 5

Leja, F.

Leja, F. Sur les polynomes de Tchebycheff et la fonction de Green. Ann. Soc. Polon. Math. 19 (1946), 1–6 (1947).

Let E be a closed set with a positive transfinite diameter d in the complex z-plane, $T_n(z)=z^n+\cdots$ the associated T-polynomial of degree n (for which $\max|T_n(z)|$ on E is a minimum). Let D be the component of the complementary set of E which contains $z=\infty$. It is shown that $\lim|T_n(z)|^{1/n}$ exists uniformly on every closed set in D not containing any point of accumulation of the zeros of $T_n(z)$. The limit is $d\exp(G)$, where G is the Green's function of D with respect to $z=\infty$. The example of two equal intervals situated on the same line is used as illustration. *G. Szegö.*

Source: Mathematical Reviews, 1948, Vol 9, No. 4



LEJA, F.

Leja, F. Sur les suites monotones en moyenne. Ann. Soc. Polon. Math. 19 (1946), 133–139 (1947).

A sequence $\{a_n\}$ is called decreasing (increasing) in mean in the arithmetic sense if $a_{n+1} \leqq (\geqq) A(a_n, a_{n+1})$ $(n = 1, 2, \cdots)$, where $A(x, y)$ is the arithmetic mean of x, y; and there are similar definitions (for positive sequences) relating to the geometric and harmonic means. It is proved that, if a sequence is monotonic in mean, it has a finite or infinite limit. The definition and theorem are extended in various ways. The limitations of the idea are indicated by the observation that, if $a_{n+1} \leqq A(a_1, a_2, \cdots, a_n)$ $(n = 1, 2, \cdots)$, the sequence need not have any limit. *A. E. Ingham.*

Source: Mathematical Reviews, 1948, Vol 9, No. 2

LEJA, F.

Leja, F. Une condition de régularité et d'irrégularité des points frontières dans le problème de Dirichlet. Ann. Soc. Polon. Math. 20 (1947), 223–228 (1948).

Reportons nous à la définition donnée dans l'analyse qui précède. L'auteur montre que si z_0 est un point de la frontière bornée F d'un domaine plan D contenant le point à l'infini, la propriété V est caractérisée par la régularité du point z_0 (au sens du problème de Dirichlet pour D). La propriété V entraîne la régularité grâce à des travaux antérieurs de l'auteur sur le diamètre transfini et la fonction de Green [mêmes Ann. 12, 57–71 (1934); 18, 4–11 (1945); ces Rev. 8, 255]. La réciproque, qui est établie en utilisant aussi divers résultats antérieurs de l'auteur, me paraît dériver plus simplement de la remarque suivante: la fonction sousharmonique à distance finie $\log|P_n(z)|$ est majorée dans D à une constante près indépendante de n par n fois la fonction de Green de D et de pôle à l'infini. L'auteur propose en terminant une extension à l'espace où $\log|P_n|$ serait remplacé par $\Phi_n = C_n - \sum_{k=1}^{n} 1/(PP_k^{(n)})$ (C_n constante, $P_k^{(n)}$ point fixe, P point courant de Φ_n); Φ_n est encore supposé borné supérieurement uniformément sur F et il chercherait à ce que $\Psi_n = \Phi_n - \pi_n$ fût aussi borné supérieurement uniformément dans un voisinage de $P_0 F$, $\epsilon > 0$ étant fixé. Mais le raisonnement que je viens d'indiquer pour la réciproque est facile à adapter à condition de prendre $\Psi_n = \Phi_n - C_n$ (le $\sum$ du C_n pouvant être un potentiel quelconque de masses positives).

M. Brelot (Grenoble).

Source: Mathematical Reviews,

Vol 10 No. 2

Leja, F.

Leja, F. Remarques sur le travail précédent de M. Mauro Picone. Ann. Soc. Polon. Math. 21 (1948), 170–172 (1949).

L'auteur améliore le théorème principal de Picone [voir l'analyse précédente] en retouchant le raisonnement. Ainsi on peut remplacer les α_i par un même nombre $\alpha>0$ ($\alpha<n-2$ si $n>2$, $\alpha<1$ si $n=2$), ce nombre α intervenant de la même manière que précédemment dans la limitation de c.

M. Brelot (Grenoble).

Source: Mathematical Reviews, Vol 11 No 5

LEJA, F.: Remarks on the Previous Work of M. Mauro Picone

LEJA, F.

Leja, F. Une généralisation de l'écart et du diamètre transfini d'un ensemble. Ann. Soc. Polon. Math. 22 (1949), 35–42 (1950).

Let $\phi(p_1, p_2, \cdots, p_\alpha)$ be a positive, continuous and symmetric function of α points in a metric space and let $\phi = 0$ if two of these points coincide. Let E be a closed set, p_i arbitrary on E, and $V(p_1, \cdots, p_n) = \prod \phi(p_{i_1}, \cdots, p_{i_\alpha})$, where $i_1, \cdots, i_\alpha$ runs over all possible combinations of $1, 2, \cdots, n$ taken α at a time; hence this product has $\binom{n}{\alpha}$ factors. Let $V_n = \max V$ where the p_i move arbitrarily on E. The author proves that $\lim_{n\to\infty} \binom{n}{\alpha}^{-1} \log V_n$ exists. Consider on the other hand $\Delta_k(p_1, \cdots, p_n) = \prod \phi(p_k, p_{i_2}, \cdots, p_{i_\alpha})$ where $i_2, i_3, \cdots, i_\alpha$ runs over all possible combinations of $1, 2, \cdots, k-1, k+1, \cdots, n$ taken $\alpha - 1$ at a time. Let

$$\Delta_n = \sup_{p_i \subset E} \{\min_k \Delta_k(p_1, p_2, \cdots, p_n)\}.$$

Then $\lim \binom{n-1}{\alpha-1}^{-1} \log \Delta_n$ exists and coincides with the limit obtained before. *G. Szegö* (Stanford University, Calif.).

Source: Mathematical Reviews, Vol 11 No. 10

Leja, F. A generalization of the variation and of the transfinite diameter of a set.
Source° Ann. Soc. Polon. Math. 22 (1919), 35-42 (1950).

Lelja, F

Lelja, F. Sur une classe de fonctions homogènes et les séries de Taylor des fonctions de deux variables. Ann. Soc. Polon. Math. 22 (1949), 245–268 (1950).

In previous papers [e.g., Ann. Acad. Polonaise Sci. Tech. Varsovie 7 (1945); these Rev. 10, 111] the author has associated with a point set E of the Euclidean E_4 a domain $D(E)$, describable by an inequality $t(z_1, z_2; E) < 1$, such that if a power series $\sum_{n=0}^{\infty} P_n(z_1, z_2)$ is convergent in E it is (absolutely) convergent in the (larger) point set $D(E)$. The present paper derives some further properties of the combinatory function $t(z_1, z_2; E)$ involved. *S. Bochner.*

Source: Mathematical Reviews, Vol 11 No. 9

LEJA, FRANCISZEK

2

Leja, Franciszek. Les problèmes de la théorie des fonctions analytiques dans les travaux récents. Časopis Pěst. Mat. Fys. 74 (1949), 79–88 (1950). (Polish. French summary)

A review of papers on analytic functions which were reviewed in these Rev. during 1948.

Source: Mathematical Reviews, Vol 12 1951 6

LEJA, FRANCISZEK

Leja, Franciszek. Une méthode d'approximation des fonctions réelles d'une variable complexe. Casopis Pěst. Mat. Fys. 74 (1949), 202–206 (1950). (Polish. French summary)

The author considers a bounded real function $f(z)$, subject to $m \leqq f(z) \leqq M$ and termed boundary function, which he supposes, defined on the boundary B of a plane domain D containing the point $z = \infty$, where B has a positive transfinite diameter. This paper is concerned with certain functions, harmonic outside B, which approximate to $f(z)$ on B. Let W denote a (variable) subset of B consisting of $n+1$ distinct points w (or w^*), let $\sum$ be a sum over the values of w in W and let $\prod^*$ be a product over the values of w in W which are distinct from the value w^*. In terms of the Lagrange polynomial $L(z, w^*) = \prod^*(z-w)/(w^*-w)$, let $F(z, \lambda) = \sum |L(z, w)| \exp [\lambda f(w)]$ for real $\lambda \neq 0$, and let $f_\lambda(z, \lambda)$ denote the infimum, as W varies and n is kept fixed, of the expression $\lambda^{-1} \log F(z, \lambda)$. The author states without proof the following results, the first of which he observes to be implicitly contained in his earlier paper [Bull. Int. Acad. Polon. Sci. Cl. Sci. Math. Nat. Sér. A. Sci. Math. 1936, 79–92]: (I) $\lim f_\lambda(z, \lambda) = f(z, \lambda)$ exists for all z, λ, is harmonic in z outside B, and fulfils in B the inequalities $\lambda m \leqq f(z, \lambda) \leqq \lambda f(z)$; (II) if B does not separate the plane and if $f(z)$ is continuous on B, then $f(z) = \lim \lambda^{-1} f(z, \lambda)$ uniformly for z in B as $\lambda \to 0$; (III) the conclusion of (II) holds also if B separates the plane, provided that, given $\varepsilon > 0$, there exists a polynomial $P(z)$ such that $|\exp [f(z)] - |P(z)|| < \varepsilon$ throughout B. Finally the author observes that if Δ is the complement of $B+D$, we can choose W so that $|L(z, w)| \leqq 1$ in $B+\Delta$ for each w in W, and hence that $m \leqq \lambda^{-1} f(z, \lambda) \leqq M$ in $B+\Delta$, and he deduces: (IV) with the hypotheses of (III), $\lim \lambda^{-1} f(z, \lambda)$ (as $\lambda \to 0$) exists in $B+\Delta$ and constitutes the harmonic interpolation of $f(z)$ in Δ.

L. C. Young.

Source: Mathematical Reviews, Vol 12 No. 8

LEJA, F.

Leja, F. Sur les coefficients des fonctions analytiques univalentes dans le cercle et les points extremaux des ensembles. Ann. Soc. Polon. Math. 23, 69–78 (1950).

Let $y=f(x)=\sum_{n=0}^{\infty} c_n x^n$ with c_n real and positive, be a function holomorphic and univalent in the circle K ($|x|<1$). Denote by Δ the domain covered by y when x varies in K, by Γ the boundary of Δ, and let D and F be the images of Δ and Γ under the transformation $x=1/y$. The author has succeeded in expressing the coefficients c_n exclusively in terms of the transfinite diameter $d(F)$ of the bounded continuum F and of the limits of the arithmetic means of the extremal points of F. The connection with the well-known results of Bieberbach and Löwner is pointed out.

More precisely, let $\eta_{1n}, \eta_{2n}, \cdots, \eta_{nn}$ be the values taken by n points $z_1, z_2, \cdots, z_n$ of F chosen so as to make $\prod_{1\le j<k\le n}(z_j-z_k)$ a maximum. Write $\Delta_j(\eta_{1n}, \cdots, \eta_{nn})$ for $\prod_{k=1}^{n}(\eta_{jn}-\eta_{kn})$, $j\neq k$, and suppose that the η_{kn} are so ordered that the sequence $\Delta_j(\eta_{1n}, \cdots, \eta_{nn})$, $j=1, \cdots, n$, is non-decreasing. Now write Δ_{n-1} for $\Delta_1(\eta_{1n}, \cdots, \eta_{nn})$. The author has proved [same Ann. 12, 57–71 (1934); 18, 4–11 (1945); these Rev. 8, 255] that $d(F)=\lim_{n\to\infty}(\Delta_{n-1})^{1/n(n-1)}$. Here he also proves that $\lim_{n\to\infty}(\eta_{1n}^p+\cdots+\eta_{nn}^p)/n=s_p$, $p=1,2,\cdots$, all exist and effects the calculations $c_1d=1$, $c_2d^2=-s_1$, $2c_3d^3=(3s_1^2-s_2)$, $3c_4d^4=-(8s_1^3-5s_1s_2+s_3)$, $(d=d(F))$, using the auxiliary function $g(y)=\lim_{n\to\infty}\prod_{k=1}^{n}(z-\eta_{kn})|^{-1/n}$ for which it is proved that $x=g(y)d(F)=f^{-1}(y)$. There are a number of minor misprints including the occasional omission of moduli signs.

R. Watson (Swansea).

Source: Mathematical Reviews, Vol 12 No. 4

LEJA, F.

Górski, Jerzy. Remarque sur le diamètre transfini des ensembles plans. Ann. Soc. Polon. Math. 23, 90–94 (1950).

Leitner, Roman. Sur une propriété des ensembles plans de diamètre transfini nul. Ann. Soc. Polon. Math. 23, 183–189 (1950).

Terasaka, Hidetaka. Solution of a problem of M. F. Leja. Ann. Soc. Polon. Math. 23, 201–204 (1950).

Leja, F. Remarque sur la note précédente. Ann. Soc. Polon. Math. 23, 204–205 (1950).

Let $\rho(p, q)$ be the distance function, $g(p, q) = \log \rho(p, q)$ and $\frac{1}{2}n(n-1)g(p_1, \cdots, p_n) = \sum\sum_{i<j} g(p_i, p_j)$. For an infinite closed bounded plane set E let g_n be the maximum of $g(p_1, \cdots, p_n)$ for points $p_i \in E$ and let $g^{(n)} = (g_1^{(n)}, \cdots, g_n^{(n)})$ be an extremal set. Let $(n-1)g_1(g^{(n)}) = \sum_{i<j} g(g_i^{(n)}, g_j^{(n)})$ and suppose the $g_i^{(n)}$ so ordered that $g_1(g^{(n)}) \leqq g_2(g^{(n)})$ for $i<j$. Also let $ng_n(z) = \sum g(g_i^{(n)}, z)$ for z outside E.

Leja had shown [same Ann. 18, 4–11 (1945); these Rev. 8, 255] that (i) $g_1(g^{(n)}) \to g(r)$ as $n \to \infty$, where r is the transfinite diameter of E, (ii) if $r>0$ then $g_n(z)$ converges as $n \to \infty$, the limit being then a Green's function.

Górski proves that $g_n(g^{(n)}) \to g(r)$ if E is a sum of continua, but not if E is a segment plus a suitable isolated point.

Leitner constructs a denumerable set E, having only two limit points, for which $g_n(z)$ does not converge as $n \to \infty$.

Terasaka constructs a similar example to Leitner's for the 3-dimensional potential $g(p, q) = -1/\rho(p, q)$. Leja remarks that the analogue for this potential of his (ii) has not been proved.

H. D. Ursell (Leeds).

Source: Mathematical Reviews, Vol 12 No. 9.

Leja, F. Une méthode élémentaire de résolution du problème de Dirichlet dans le plan. Ann. Soc. Polon. Math. 23, 230–245 (1950).

Let D_a be a domain of the plane, containing the point at infinity as an interior point, and $\varphi(z)$ a real function continuous on F, the boundary of D_a; it is assumed that D_a+F has a proper complement, Δ. Let $Z^{(n)}=\{Z_0, Z_1, \cdots, Z_n\}$ be an arbitrary set of $n+1$ distinct points of F, and set

$$V(Z^{(n)}) = \prod_{0\le j<k\le n} |Z_j - Z_k|,$$

$$L^{(j)}(z, Z^{(n)}) = \prod_{k=0, k\neq j}^{n} \frac{z-Z_k}{Z_j-Z_k}, \qquad j=0, 1, \cdots, n,$$

$$V_\lambda(Z^{(n)}) = V(Z^{(n)}) \exp\left(-n\lambda \sum_{j=0}^{n} \varphi(Z_j)\right), \qquad \lambda>0.$$

Let $x^{(n)}=\{x_0^{(n)}, x_1^{(n)}, \cdots, x_n^{(n)}\}$ be a system of $n+1$ points of F (depending on λ) on which $V_\lambda(Z^{(n)})$ attains its maximum value, and set

$$\Phi^{(j)}(z, \lambda, x^{(n)}) = L^{(j)}(z, x^{(n)}) \exp\left(n\lambda\varphi(x_j^{(n)})\right), \quad j=0, 1, \cdots, n.$$

$$F_n(z, \lambda) = \sum_{j=0}^{n} |\Phi^{(j)}(z, \lambda, x^{(n)})|, \quad n=1, 2, \cdots.$$

The principal result given is that

$$\lim_{\lambda\to 0}\left\{\lim_{n\to\infty}\frac{1}{\lambda}\log\left[F_n(z, \lambda)\right]^{1/n}\right\}$$

exists and constitutes the solution of the Dirichlet problem for the bounded open set Δ and the boundary values $\varphi(z)$.

F. W. Perkins (Hanover, N. H.).

Source: Mathematical Reviews, Vol. 12 No. 7.

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Dec. 1953
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Vol. 2, no. 2, 1955

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SCIENCE
Poland

So: East European Acession, Vol. 6, No. 5, May 1957

Free and Restricted Distribution of the Extremal Points in a General Plane

16

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Let E be a compact set in the plane, and let $\zeta^{(n)} \equiv (\zeta_1, \zeta_2, \cdots, \zeta_n)$ be an n-tuple of points of E, $n \geqq 2$. Set $V(\zeta^{(n)}) \equiv \prod_{1 \leq j < k \leq n} |\zeta_j - \zeta_k|$. Let $V_n(E) = \max_{\zeta^{(n)} \in E} V(\zeta^{(n)})$. If $(\eta^{(n)})$ is an n-tuple such that $V_n(E) = V(\eta^{(n)})$, then $(\eta^{(n)})$ is called a set of extremal points of E of rank n (corresponding to a free distribution on E). It is well-known that $\lim_{n \to \infty} [V(\eta^{(n)})]^{2/n(n-1)} \equiv d(E)$ exists; it is the transfinite diameter of E. Now let $E = E_1 \cup E_2$, $E_1 \cap E_2 = \emptyset$, for compact E, E_1, E_2. The author defines $V_{2n} \equiv V_{2n}(E_1, E_2) \equiv \sup V(\zeta^{(2n)})$, where the bound is taken over all $2n$-tuples in E such that $\zeta_k \in E_1$, $1 \leqq k \leqq n$ and $\zeta_k \in E_2$, $n+1 \leqq k \leqq 2n$. A $2n$-tuple $(X^{(2n)})$ such that $V_{2n} = V(X^{(2n)})$, with the first n points in E_1 and the remainder in E_2, is called an extremal set for $E_1 \cup E_2$ corresponding to the restrained distribution in the ratio 1:1. Various properties of the latter points are obtained. We quote two of them. (I) $\lim_{n \to \infty} V_{2n}^{2/n(n-1)} \equiv v(E_1, E_2)$ exists and is called the restrained capacity of $E_1 \cup E_2$. (II) If either $d(E)_1$ or $d(E_2)$ is zero, then $v(E_1, E_2) = 0$. The author considers various generalizations of the restrained capacity, including the case where $E = \bigcup_1^n E_k$, $E_k \cap E_p = \emptyset$, $k \neq p$, where E is still compact, but the E_k are not.

M. O. Reade (Zbl 72, 111)

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NPB

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1. Huta Kosciuszko

BLAZEJEWSKA, Aleksandra; LEJA, Stanislaw; MATYSIAK, Tadeusz

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1. Katedra Zoologii Systematycznej, Uniwersytet im. M.Kopernika, Torun.

LEJA, WITOLD

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Abs Jour: Ref Zhur-Biol., No 12, 1958, 54954.

Author : ~~Leja~~, Witold.
Title : Treating Itch in Blue Foxes with Hexachloro-Cyclohexan.
Inst :

Orig Pub: Med. weteryn., 1957, 13, No 8, 460.

Abstract: No abstract.

Card : 1/1

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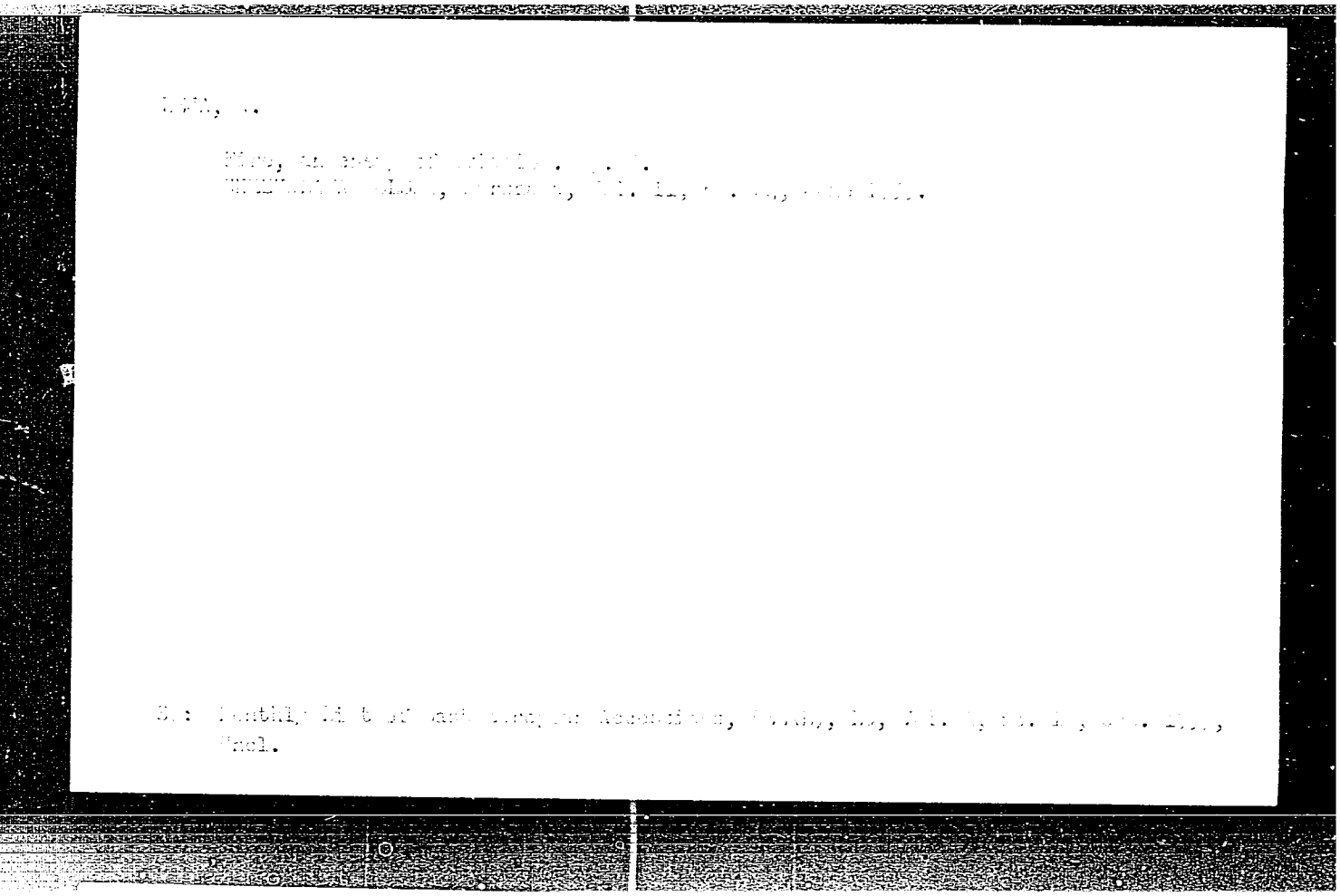

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BORSZEWSKI, Jerzy; PAPKE, Anna; LEJA, Zbigniew

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1. Z III Kliniki Chirurgicznej A.M. w Poznaniu Kierownik: doc. dr. J. Borszewski. Adres autorow: Poznan, ul. Szkolna 8/12 III. Klinika Chirurgiczna A.M.

(GASTRECTOMY,
Henley's operation in peptic ulcer, postop. protein & fat absorp. (Pol))
(FATS, metabolism,
absorp. after Henley's operation in peptic ulcer (Pol))
(PROTEINS, metabolism,
same)

MACKIEWICZ, Stefan; PRZYBYL, Leszek; CHODERA, Alfons; LEJA, Zbigniew

The kidney in rheumatoid arthritis. Polski tygod. lek. 13 no.35:1364-1367 1 Sept 58.

1. Z III Kliniki Chorob Wewnetrznych A. M. w Poznaniu; kierownik: prof. dr F. Labenzinski i z Centralnej Wojewodzkiej Poradni Przeciwreumatycznej, kier. dr. med. S. Sobata. Adres: Poznan, ul. Szkolna 8/12. III Klin. Chor. Wewn.

(ARTHRITIS, RHEUMATOID, physiol.
kidneys (Pol))
(KIDNEYS, in various dis.
rheum, arthritis (Pol))

GREMBOWICZ, Zofia; LEJA, Zbigniew

Electrophoretic analysis of blood proteins during largactil therapy of schizophrenic patients. Polski tygod. lek. 14 no.7:300-302 16 Feb 59.

1. Z Kliniki Psychiatryzcznej A.M. w Poznaniu; kierownik: prof. dr R. Dreszer i ze Szpitala Miejskiego im. J. Strusia w Poznaniu; dyrektor: dr St. Andrzejewski. Adres: Pozman, Klinika Psychiatryczna A.M.

(BLOOD PROTEINS, in various dis.
schizophrenia, eff. of chlorpromazine ther. (Pol))
(SCHIZOPHRENIA, ther.
chlorpromazine, eff. on blood proteins (Pol))
(CHLORPROMAZINE, ther. use
schizophrenia, eff. on blood proteins (Pol))

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STASINSKI, Tadeusz; LEJA, Zbigniew

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1. Z III Kliniki Chorob Wewnetrznych A.M. w Poznaniu; kierownik:
prof. dr Franciszek Labendzinski.
(HEART DEFECTS CONGENITAL pathol)
(HEMATOPOIETIC SYSTEM pathol)

BOGACKI, Bogdan; SZULC, Henryk; SARNOWSKI, Marcin; MAJEWSKI, Czeslaw; KUBIAK, Eugeniusz; LEJA, Zbigniew

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(KNEE dis)
(STREPTOMYCIN pharmacol)
(PENICILLIN pharmacol)

LEJA Zbigniew

4

Country: Poland

Academic Degrees: [Not given]

Affiliation: Chorób Wewnętrznych Akademii Medycznej Poznań), Poznań; Director: Franciszek LABENDZINSKI, Prof. dr. med.

Source: Warsaw, Przegląd Lekarski, No 5, 1961, p. 201.

Data: "The Haemopoietic System in Patients with Congenital Cyanotic Cardiac Defects." (Abstract)

Co-author:

LEJA, Zbigniew, Third Clinic of Internal Diseases, School of Medicine, Poznań; Director: Franciszek LABENDZINSKI, prof. dr. med.

LEJ-LEM

BOGACKI, Bogdan; SZULC, Henryk; SARNOWSKI, Marcin; MAJEWSKI, Czeslaw; KUBIAK, Eugeniusz; LEJA, Zygmunt

Effect of intramuscular and intra-articular administration of penicillin and streptomycin in experimental infection of the knee joint. Polski przegl. chir. 33 no.7/9:913-915 '61.

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(PENICILLIN pharmacol) (STREPTOMYCIN pharmacol)
(KNEE dis) (ARTHRITIS exper)

MAJEWSKI, Czeslaw; LEJA, Zbigniew; SZULC, Henryk; STEINGERT, Krzysztof; SIWINSKI, Stefan

Histochemical studies on alkaline and acid phosphatase in the liver of patients operated on for cancer of the abdominal organs. Pat. polska 14 no.4:479-485 O-D'63

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MAJEWSKI, Czeslaw; LEJA, Zbigniew; MAJEWSKA, Helena

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KROLL, Jozef, LEJA, Zbigniew

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ERMICH, Stefan; LEJANKA, Maria; KANIEWICZ, Zbigniew

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1. Z Oddziału Chirurgii Ogólnej Szpitala Miejskiego w Gliwicach Ordynator: dr S. Ermich.
(VATER'S AMPULLA) (SURGERY, OPERATIVE)

LEJANKA, Maria

Pneumatosis cystoides intestinalis. Polski przegl. chir. 29 no.3:247-250 Mar 57.

1. Z Oddzialu Chirurgii Ogolnej Szpitala Miejskiego w Gliwicach Ordynator: dr. med. S. Ermich. Adres autora: Gliwice, ul. Ziemowita 6.
(INTESTINES, diseases,
pneumatosis cystoides, case reports (Pol))

LEJAWKA, W.

Case of pulmonary carcinoma coexistent with sarcoma of the chest wall. Gruzlica 33 no.11:1232-1233 N '65.

LEJCEK, A.; OLMER, J.

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Uncla.

LEJCEK, A., inz.

Prospects of food industry automation. Tech praca 15 no.7:498-503 Jl '63.

1. Vyzkumny ustav ekonomoky potravinarskeho prumyslu, Praha.

NOVOTNY, Ladislav; LEJCEK, Alois

Combination of regional planning and production in the food industry of the Czechoslovak Socialist Republic. Elelm ipar 16 no.1:9-14 Ja '62.

1. Elelmiszeripari Gazdasagi Kutato Intezet, Praga, Czechoslovakia.

LEJCZAK, Wlodzimierz, mgr inz.

Rock burst in seam 620 of L mine. Przegl gorn 19 no.7/8: 285-290 Jl-Ag '63.

ANDROVIC, A.; SKODACEK, P.; GOTFRYD, O.; LEJDAR, Z.; ZEMAN, J.; HERMANEK, S.; JANCEKOVA, G.

Discussion on the interlaminal solution of laminal syndromes and the course of re-education. Cas.lek.cesk 100 no.46:1444-1448 17 N '61.

1. Neurolog. a rehabilitac. odd. Cs. st. kupelov Piestany ako aj chirurg. klinika v Brne, prednosta prof. dr. Podlaha a VKU Piestany.

(SPINE dis)

Key Dun, Z

CZECHOSLOVAKIA/Human and Animal Physiology - Blood Circulation. V-5

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4020

Author : J. Duchon', K. Feriencik, Z. Lejdar, M. Oriskoya
Inst : -
Title : The So-Called Juvenile Hypertension.

Orig Pub : Lekar. obzor, 1957, 6, No 5, 298-305

Abstract : No abstract.

Card 1/1

ANDROVIC, A.; ZEMAN, J.; JANCEKOVA, G.; LEJDAR, Z.

Restorative therapy of sequelae following fractures of the vertebrae related to lesions of the comus medullaris and of the cauda. Cesk. neur. 22 no.2:109-110 Mar 59.

1. Neurologicke a rehabilitacne oddelenie Ceskoslovenskych statnych kupelov v Piestanoch, riaditel MUDr. Stefan Mance Prednostovia: MUDr. Alojz Androvice, MUDr. Jan Zeman.
(SPINE, fract.
with comus medullaris & caudal lesions, rehabil. (Cz))

LEJHANCOVA, G.

Dermatitis due to turpentine oil. Pracovni lek. 2 no.2:73-82 15 May 50. (CLML 20:4)

1. Of the Institute of Industrial Medicine in Brno (Head--Doc. K.Kadlec, M.D.).

LEJHANCOVA, G.

Skin diseases in textile industry. Prakt. lek., Praha 31 no. 23:506-508 5 Dec. 1951. (CIML 21:3)

1. Of the Institute of Industrial Medicine (Head--Docent Karel Kadlec, M. D.), Brno.

LEJHANCOVA, G., MUDr

Evaluation of occupational dermatoses with respect to accident insurance. Cesk. derm 24 no.5:283-290 Oct 54.

1. Z odd. pro prevenci, leceni a posuzovani chorob z povolani pri KUNZ Brno, prednosta doc. MUDr Karel Kadlec

(SKIN, diseases
occup. medicolegal evaluation in accid. compensation claims)
(OCCUPATIONAL DISEASES
dermatoses, medicolegal evaluation in accid. compensation claims)
(WORKMEN'S COMPENSATION AND INSURANCE
in Czech., medicolegal evaluation of occup. dermatoses)
(JURISPRUDENCE, MEDICAL
medicolegal evaluation of occup. dermatoses in compensation claims)

LEJHANCOVA, G., MUDr.; WOLF, J., Ing.

Effect of turpentine , of turpentine oil, and of their oxidation products on the skin. Pracovni lek. 7 no.5: 285-289 Sept 55.

1. Z odd. chorob z povolani KUNZ Brno, prednosta doc. MUDr. K. Kadlec.

(SKIN, effect of drugs on,
terpene & turpentine oil & their oxidation prod.)
(TERPENES, effects,
on skin)
(TURPENTINE, effects,
on skin)

EXCERPTA MEDICA Sec. 17 Vol. 3/10 Public Health Oct. 57

3173. LEJHANCOVÁ G. Odd. Chor. z Povolání KÚNZ, Brno. *Diagnostika profesionálního ekzému pomocí kožních testů. Diagnosis of occupational eczema with the aid of the cutaneous test PRACOVNÍ LÉK. (Praha) 1956, 8/6 (449-451) Tables 1

The technical procedure of performing cutaneous tests (patch tests) is described. These tests reveal the hypersensitivity of the skin against industrial noxae with which the employees come in contact during their work and which, in some persons, can cause skin disease.

Soucek - Prague (XVII, 13*)

LEJHANCOVA, G., dr.

Evaluation of alkali resistance tests and neutralizing capacit of the skin in occupational dermatology. Cesk. derm. 34 no.2/3:97-100 Ap '59.

1. Klinika chorob z povolani, Brno, prednosta doc. dr. K. Kadlec.

(OCCUPATIONAL DERMATITIS etiol) (SKIN physiol)

LEJHANCOVA, G.

Occupational dermatoses in agriculture. Prac. lek. 13 no.8/9:417-420 N '61.

1. Klinika chorob z povolani v Brne, prednosta doc. dr. Karel Kadlec.

(OCCUPATIONAL DERMATITIS) (AGRICULTURE)

LEJHANCOVA, G.

Work capacity from a dermatological viewpoint. Cesk. derm. 36 no.3: 146-150 My '61.

1. Klinika chorob z povolani v Brne, prednosta doc. MUDr. K. Kadlec.

(OCCUPATIONAL DERMATITIS)

LEJHANCOVA, G.

Group allergy in determining occupational factors in skin diseases. Cesk. derm. 36 no.3:151-153 My '61.

1. Klinika chorob z povolani v Brne, prednosta doc. MUDr. K. Kadlec.

(OCCUPATIONAL DERMATITIS diag)

LEJHANCOVA, Greta

JIRASEK, Lubor, CZECHOSLOVAKIA

MD

II Dermato-venerological Clinic of the Faculty of General Medicine of KU (Karlova Universita - Charles University); Director: J. Obrtel, Prof. Dr.

Prague, Prakticky Lekar, No. 18, 1962, p800-802

"Criteria for Evaluation of Occupational Skin Diseases"

Co-author:

LEJHANCOVA, Greta, MD, Clinic for Occupational Diseases, Medical Faculty of J. Ev. Purkyne University, Brno; Director: J. Vyskocil, Docent Dr.

SEVCIK, M.; LEJHANCOVA, G.

The status of occupational dermatoses in legislation. Cesk. derm. 38 no.2:118-121 Ap '63.

1. Klinika chorob z povolani lekarske fakulty UJEvP v Brne, prednosta doc. dr. J. Vyskocil.
(OCCUPATIONAL DERMATITIS) (LEGISLATION, MEDICAL)

HUDLICKY, M.; LEJHANCOVA, I.

Organic compounds of flourine. Pt.4. Coll Cz Chem 28 no.9: 2455-2461 S '63.

1. Research Institute for Pharmacy and Biochemistry., Prague.

HUDLICKY, M.; LEJHANCOVA, I.; MALY, V.; KONIG, J.

Organic compounds of fluorine. Pts.5-6.Coll Cz Chem 28 no.10: 2744-2748, 2824-2826 O '63.

1. Research Institute for Pharmacy and Biochemistry, Prague.

CZECHOSLOVAKIA

HIDLICKY, M; LEJHANCOVA, I.

Research Institute of Pharmacy and Biochemistry (Prague),
(for both)

Prague, Collection of Czechoslovak Chemical Communications,
No 9, 1963, pp 2455-2461

"Organic Compounds of Fluorine. IV. Preparation of 1,1,1-Trifluoro-2-Chloro-2-Bromoethane (Halothane)."

CZECHOSLOVAKIA

HUDLICKY, M; KARAC, B; LEJHANCOVA, I

Research Institute for Pharmacy and Biochemistry, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1967, pp 185-189

"Organic compounds of fluorine. Part 12: The synthesis of 2-carboxy-5-methyl-5-fluorovaleric acid, 2-carboxy-5-fluorocaproic acid, and 2-carboxy-5,5-difluorocaproic acid."

LEJHANCOVA, Marketa; SKLENSKY, Bohuslav; KAREN, Alexandr

Skin injury in the production of tar paper. Prac. lek. 16 no.4:
163-166 My '64

1. Klinika nemoci z povolani lekarske fakulty University J.E.
Purkyne v Brne (prednostar doc. dr. J. Vyskocil).

LEJHANEC, G.

Penicillin in the therapy of venereal diseases. Lek.listy 5 no.10: 296-298 15 My '50. (CLML 19:3)

1. Of the Dermatological Clinic of the Medical Faculty, Palackeho University, Olomouc.

LEJHANEC, G.

Dermatology in industrial hygiene. Prakt. lek., Praha 31 no. 23:501-502 5 Dec. 1951. (CLML 21:3)

LEJHANEC, G., Prof. MUDr

Importance of digestive disorders in pathogenesis of eczema. Cas. lek.cesk. 91 no.11:316-319 14 Mar 52.

1. Z dermatologicke kliniky lek. fak. Palackeho university v Olomouci Prednosta prof. MUDr G.Lejhanec.

(ECZEMA, etiology and pathogenesis, digestive disord.)
(GASTROINTESTINAL DISEASES, digestive disord. in etiol. of eczema)

LEJHANEC, Gustav

LEJHANEC, Gustav, Dr. Prof., predn. dermatol. kliniky PU v Olomouci

Balneotherapy of skin diseases. Prakt. lek., Praha 35 no.6:121-123 20 Mar 55.

(SKIN, diseases
balneother.)
(BALNEOLOGY, in various diseases
skin dis.)

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