ORLINSKIY, I.S.

Increasing the production capacity of the apparatus for mashing and boiling the wort in breweries. Trudy VNIIPP no.7:36-47 '59. (MIRA 13:5)
(Brewing industry--Equipment and supplies)

Orlinskiy M.Yu.

ORLINSKIY, M.Yu.; mayor med. sluzhby (L'vov)

Phlegmonous angina and its treatment through tonsillectomy. Vrach. delo supplement '57:57-58 (MIRA 11:3)
(THROAT--ABSCESS)

ORLINSKIY, M.Yu.(L'vov)

Acute suppurative middle otitis following tympanoplasty. Zhur. ush., nos. i gorl. bol. 21 no.1:72-73 Ja-F '61. (MIRA 14:6)
(EAR--DISEASES)

ORLITA, Alois

Anzymatic hide depilation and its importance for management of water resources. Kozarstvi 13 no.10:311-313 O '63.

1. Vyzkumny ustav kozedelny, Gottwaldov, Otrokovice.

ORLITA, A.

Microbial corrosion of organic materials. Kozarstvi 14 no. 3: 71 Mr '64.

1. Leather Research Institute, Gottwaldov.

ORLITA, Alois

White spots on vegetable tanned leather. Kozarstvi 14 no. 5:138-145 My '64.

1. Biological Laboratory, Research Institute of Leather, Gottwaldov.

ORLITA, L.

Mechanization of grass and clover cultivation for seed. p.89.
(Beseda Venkovske Rodiny, Vol. 30, No. 2, Apr. 1957, Praha, Czechoslovakia)

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

[illegible], I.

[illegible]
(published 1955).

SO: Monthly List of [illegible] Accessions, (LC), L., Vol. [illegible], [illegible], Incl.

ORLOCI, I.

Some experiences in experiments with models pertaining to regulation of the Elbe Riber. p. 133.
VIZUGYI KOZLEMENYEK. HYDRAULIC PROCEEDINGS. (Kozlekedesugyi Miniszterium. Vizgazdalkodasi Todomanyos Kutato Intezet). Budapest. Vol 28, no. 1, 1956.

SOURCE: EEAL, Vol 5, no. 7, July 19 .

ORLOCI, Istvan; BOZSONY, Denes

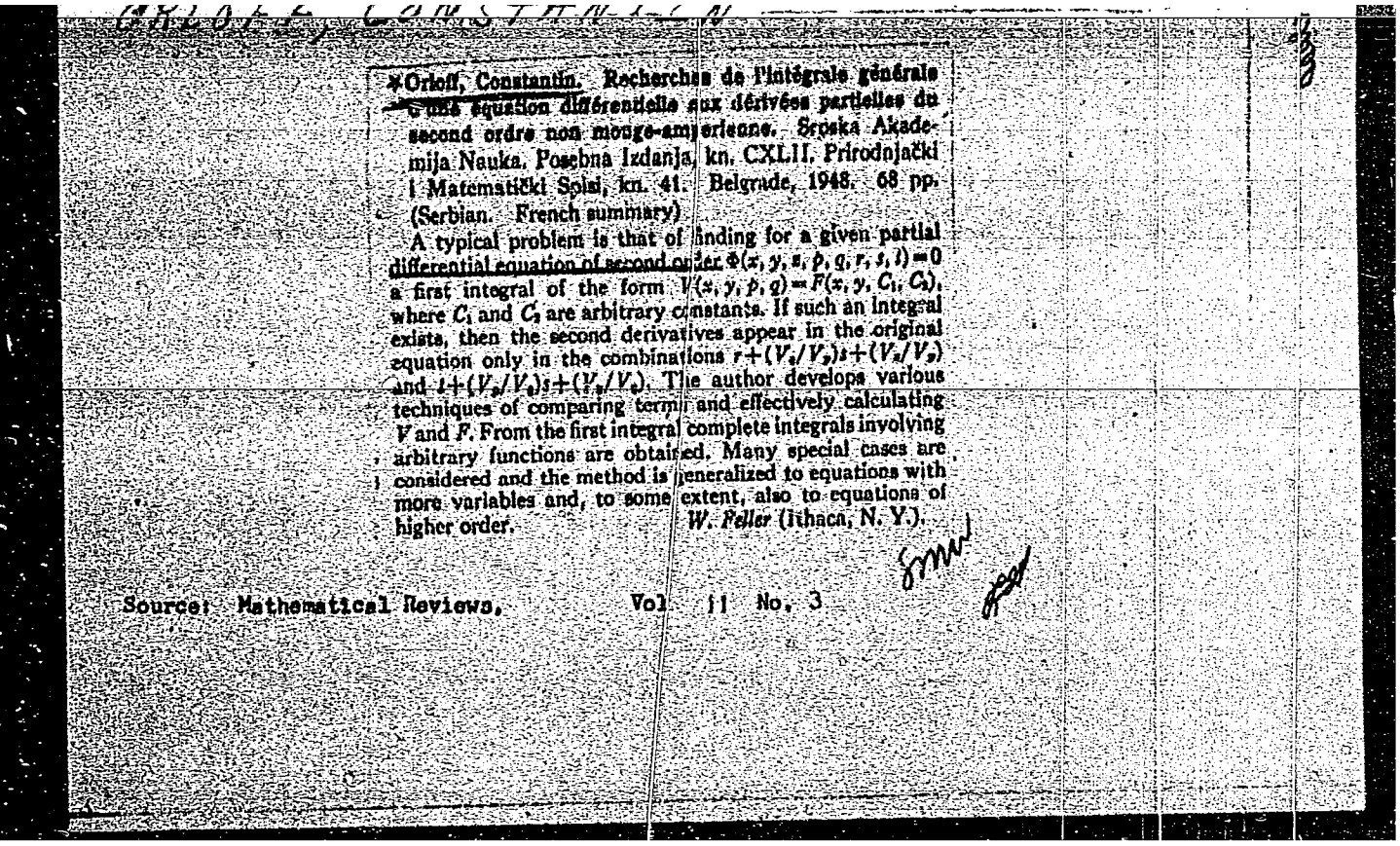
Preparations for the model test of the Nagymaros section of the Danube. Hidrologiai kozlony 35 no.4:267-273 Ag'56.

1. Epitoipari es Kozlekedesi Muszaki Egyetem II.sz. Vizepitestani Tanszeke. Tanszekvezeto: Dr. Mosonyi Emil egyetemi tanar. 2. "Hidrologiai Kozlony" szerkeszto bizottsagi Tagja (for Bozsony).

ORLOCZY, I.: ROZSONY, D.

Preliminary investigation for the model test of the Danube section of Nagymaros.
p. 267.
(HIDROLOGIAI KOZLONY. HYDROLOGICAL JOURNAL. Vol. 36, no. 4, Aug. 1956. Budapest)

SO: Monthly List of East European Accessions(EEAI) LC, Vol. 6, no. 6, June 1957. Uncl.

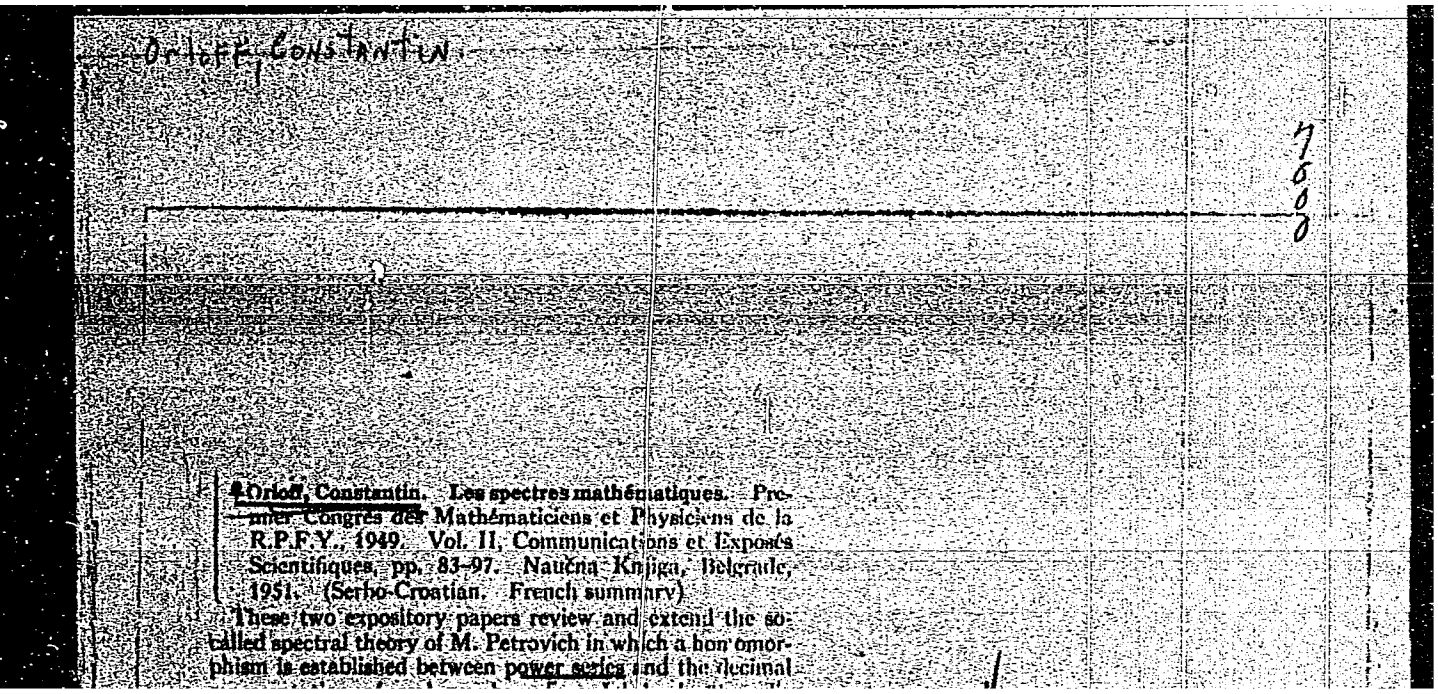


*Orlov, Constantin. Recherches de l'intégrale générale d'une équation différentielle aux dérivées partielles du second ordre non monge-ampérienne. Srpska Akademija Nauka. Posebna Izdanja, kn. CXLII. Prirodnjački i Matematički Spisi, kn. 41. Belgrade, 1948. 68 pp. (Serbian. French summary)

A typical problem is that of finding for a given partial differential equation of second order $\Phi(x, y, z, p, q, r, s, t) = 0$ a first integral of the form $V(x, y, p, q) = F(x, y, C_1, C_2)$, where C_1 and C_2 are arbitrary constants. If such an integral exists, then the second derivatives appear in the original equation only in the combinations $r + (V_x/V_p)s + (V_x/V_p)$ and $t + (V_y/V_q)s + (V_y/V_q)$. The author develops various techniques of comparing terms and effectively calculating V and F. From the first integral complete integrals involving arbitrary functions are obtained. Many special cases are considered and the method is generalized to equations with more variables and, to some extent, also to equations of higher order.

W. Feller (Ithaca, N. Y.)

Source: Mathematical Reviews, Vol 11 No. 3



Orloff, Constantin. Les spectres mathématiques. Premier Congrès des Mathématiciens et Physiciens de la R.P.F.Y., 1949. Vol. II, Communications et Exposés Scientifiques, pp. 83–97. Naučna Knjiga, Belgrade, 1951. (Serbo-Croatian. French summary)

These two expository papers review and extend the so-called spectral theory of M. Petrovich in which a homomorphism is established between power series and the decimal

D. H. Lehmer (Los Angeles, Calif.).

Source: Mathematical Reviews, Vol 13 No. 9

ORLOFF, KONSTANTIN

Orloff, Konstantin. Sur un théorème des accroissements finis. Bull. Soc. Math. Phys. Serbie 3, no. 1–2, 71–73 (1951). (Serbo-Croatian. French summary)

Relative to the law of the mean,

$$(*)\qquad F(x)-F(y)=(x-y)F'(\xi),$$

R. Rothe [Math. Z. 9, 300–325 (1921)] obtained conditions on a given function $\xi(x,y)$ which are necessary for the existence of a function $F(t)$ satisfying (*) identically. R. Bojanić [Acad. Serbe Sci. Publ. Inst. Math. 3, 219–226 (1950); these Rev. 12, 483] extended the result of Rothe to give three necessary conditions on $\xi(x,y)$, which together are sufficient for the existence of $F(t)$. These conditions are that $\xi(x,y)$ satisfy $\xi(x,y)=\xi(y,x)$ and $\xi(x,x)=x$, and that the expression $s/(pq)+(p-q)/[(y-x)pq]$, $y\neq x$, be a function of ξ alone. The author now reduces the number of conditions which are both necessary and sufficient to two; these are that $\xi(x,y)$ satisfy $\lim_{y\to x}\xi(x,y)=x$, and that, for $y\neq x$, the function $f(x,y)$, defined by $f(x,y)=(\xi_x+\xi_y)/[(x-y)\xi_x]$, satisfy

$$f(x,y)=\frac{f(x,\alpha)\exp\left[\int_y^x f(t,\alpha)\,dt\right]-f(y,\alpha)}{\exp\left[\int_y^x f(t,\alpha)\,dt\right]-1-f(y,\alpha)(x-y)},$$

where α is a constant for which $f(x,\alpha)\neq$ const.

E. F. Beckenbach (Los Angeles, Calif.).

Source: Mathematical Reviews, Vol 13 No 10

ORLOFF, Constantin P.

2

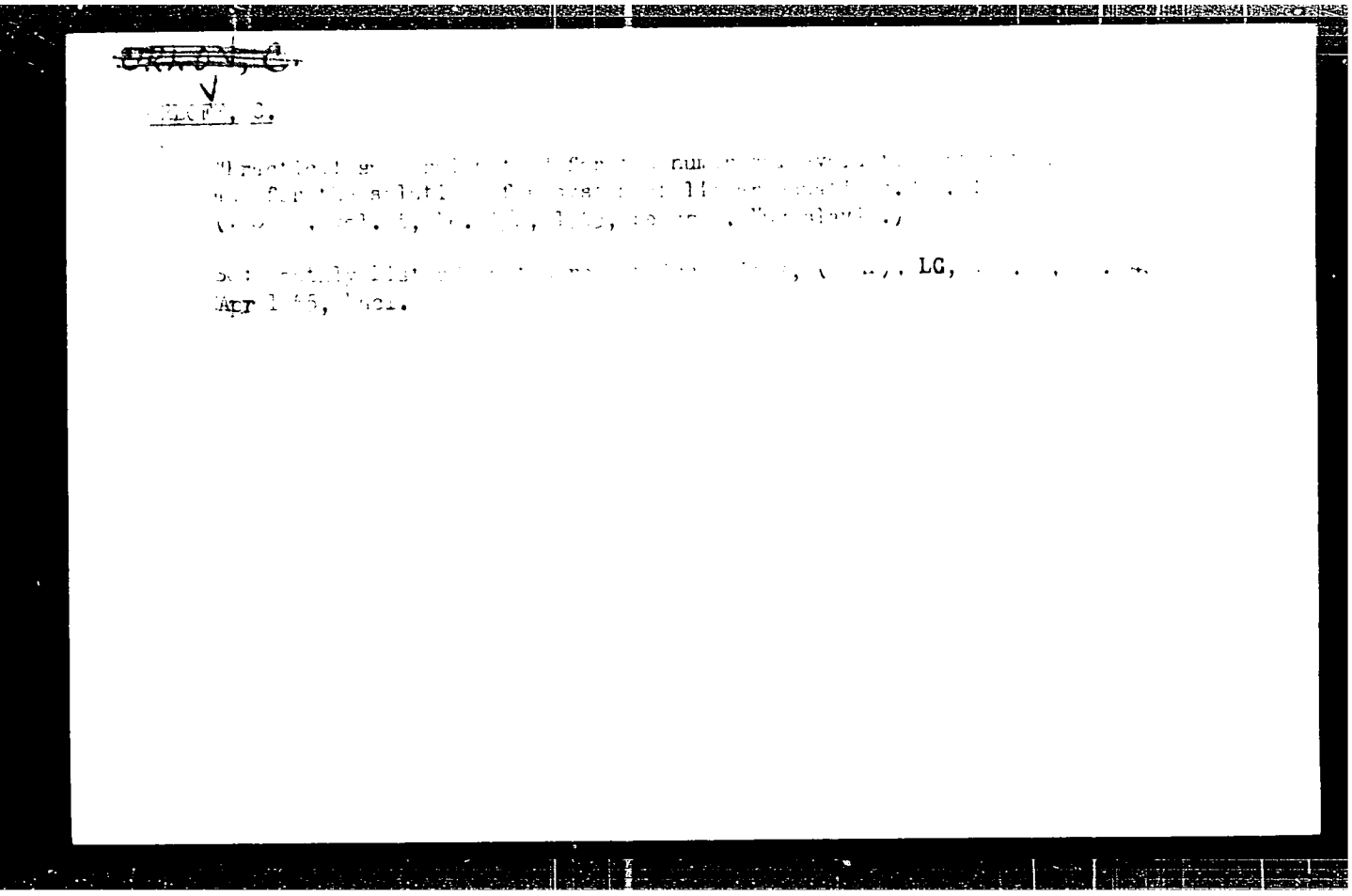
Mathematical Reviews
Vol. 15 No. 3
March 1954
Analysis

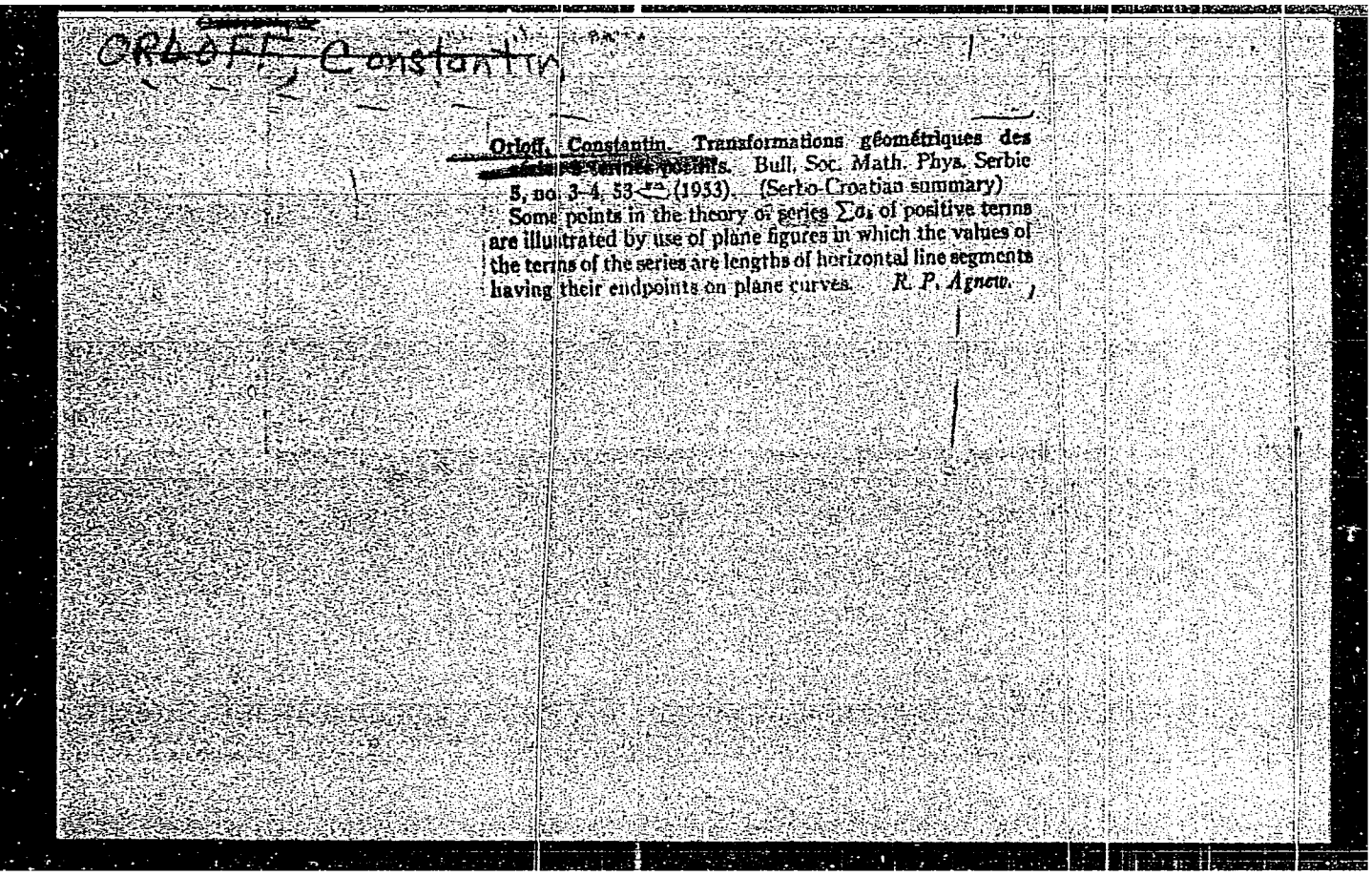
7-8-54
LL

(2)

Orloff, Constantin P. Recherche de l'intégrale générale des équations différentielles partielles du second ordre, qui ne sont pas Monge-Ampériennes. Bull. Acad. Serbe Sci. (N.S.) 5, Cl. Sci. Math. Nat. Sci. Math. 1, 37–88 (1952).

This is an almost literal translation of a paper in Serbian [Srpska Akad. Nauka. Posebna Izdanja 142. Prirodnjački i Matematički Spisi 41. Belgrade, 1948; these Rev. 11, 181]. *W. Feller* (Princeton, N. J.).

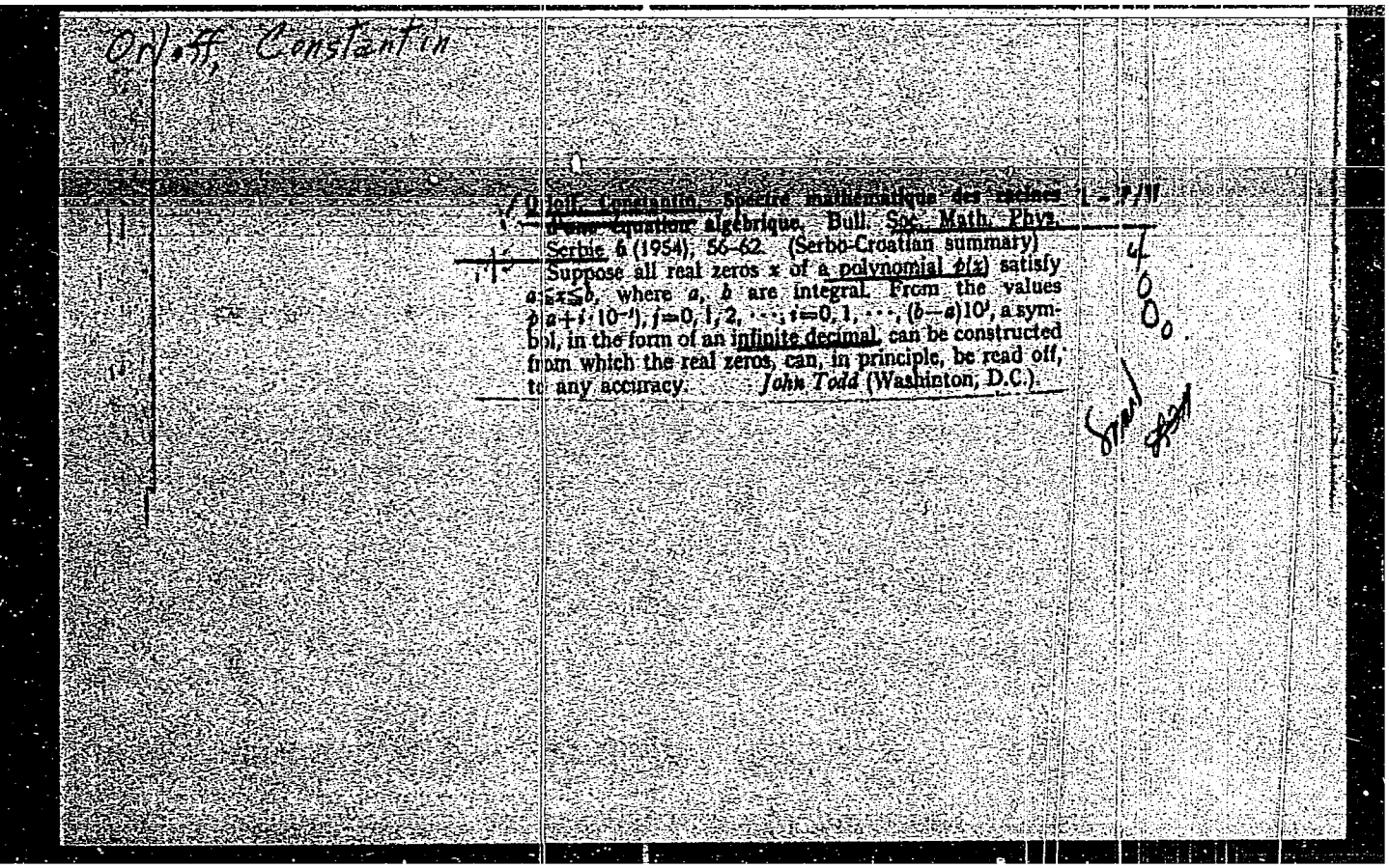




ORloff, Constantin

Orloff, Constantin. Transformations géométriques des séries à termes positifs. Bull. Soc. Math. Phys. Serbie 5, no. 3-4, 53-72 (1953). (Serbo-Croatian summary)

Some points in the theory of series $\sum a_i$ of positive terms are illustrated by use of plane figures in which the values of the terms of the series are lengths of horizontal line segments having their endpoints on plane curves. *R. P. Agnew*



Orloff, Constantin

Orloff, Constantin. Spectre mathématique des racines d'une équation algébrique. Bull. Soc. Math. Phys. Serbie 6 (1954), 56-62. (Serbo-Croatian summary)

Suppose all real zeros x of a polynomial $p(z)$ satisfy $a \leq x \leq b$, where a, b are integral. From the values $p(a+i\cdot 10^{-j})$, $j=0, 1, 2, \cdots$; $i=0, 1, \cdots, (b-a)10^j$, a symbol, in the form of an infinite decimal, can be constructed from which the real zeros, can, in principle, be read off, to any accuracy. *John Todd* (Washington, D.C.)

Simplification of Graeffe's Method (Numerical Computation Method) 2

1-FW

Orloff, Constantin. Simplification de la méthode de Graeffe au moyen des spectres mathématiques. Bull. Soc. Math. Phys. Serbie 8 (1956), 39–46. (Serbo-Croatian summary)

Le but de ce travail est d'apporter une simplification dans le méranisme pratique de la méthode de Graeffe pour l'évaluation numérique des racines d'une équation algébrique. La méthode spectrale qui va être exposée simplifie le procédé de transformation d'une équation algébrique en une autre ayant pour racines les carrés des racines de l'équation donnée, en réduisant le nombre des opérations à effectuer.

La transformation de l'équation

$$(I) \qquad P(x)=a_0x^n+a_1x^{n-1}+\cdots+a_n=0$$

exige (1) $[\frac{1}{2}(n+2)^2]$ multiplications entre les coefficients, (2) $[\frac{1}{2}n^2]$ multiplications avec le nombre 2, (3) $[\frac{1}{2}n^2]$ additions ou soustractions.

La méthode spectrale réalise la transformation en question, pour n'importe quel n, au moyen: (1) d'une seule multiplication entre les spectres, (2) d'une seule multiplication avec le nombre 2, (3) au plus 3 additions ou soustractions.

Orloff, Constantin

La méthode est basée sur le théorème: Soit donnée l'équation (I), a_i étant des nombres entiers. Formons les spectres, ordinaire et corrigé à toutes les places paires, de cette équation, avec le rythme uniforme h, défini par les relations suivantes

$$h=[\log s+\tfrac{1}{2}\log 2(n+1)]+1,\quad s=\max|a_i|.$$

Le spectre ordinaire S_1, au rythme uniforme $2h$, de l'équation transformée, aux racines qui sont les carrés des racines de l'équation (I), est égal au produit des spectres

$$S_1=S\cdot\bar{S};\quad S=P(10^h),\quad \bar{S}=(-1)^n P(-10^h).$$

S. Kulik (Logan, Utah)

ORLON, M. V.

Orlon, M. V. "Incubation of chicken eggs kept for equal periods," Trudy Nauch.-issled. in-ta ptitsevodstva, Vol. XIX, 1948, p. 183-204

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

ORLON, M. V.

Orlon, M. V. "Project of a collective farming incubator for 5,000 hatcheries," Trudy Nauch.-issled in-ta ptitsevodstva, Vol. XIX, 1946, p. 205-16

SO: U-2888, Letopis Zhurnal'nykg Statey, No. 1, 1949

ORLON, M. V.

Orlon, M. V. and Belyaev, Ya. V. "Planning of universal sectional MTP system at 33 thousand hatcheries," Trudy Nauch.-issled. in-ta ptitsevodstva, Vol. XIX, 1948 p. 217-39

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

B. CZECHOSLOVAKIA

"Defenses against the occurrence of Agaricus in the coniferous forests of mountainous countries." p. 34. (POLAMA, Vol. 9, no. 2, Feb. 1955, Praha, Czechoslovakia.)

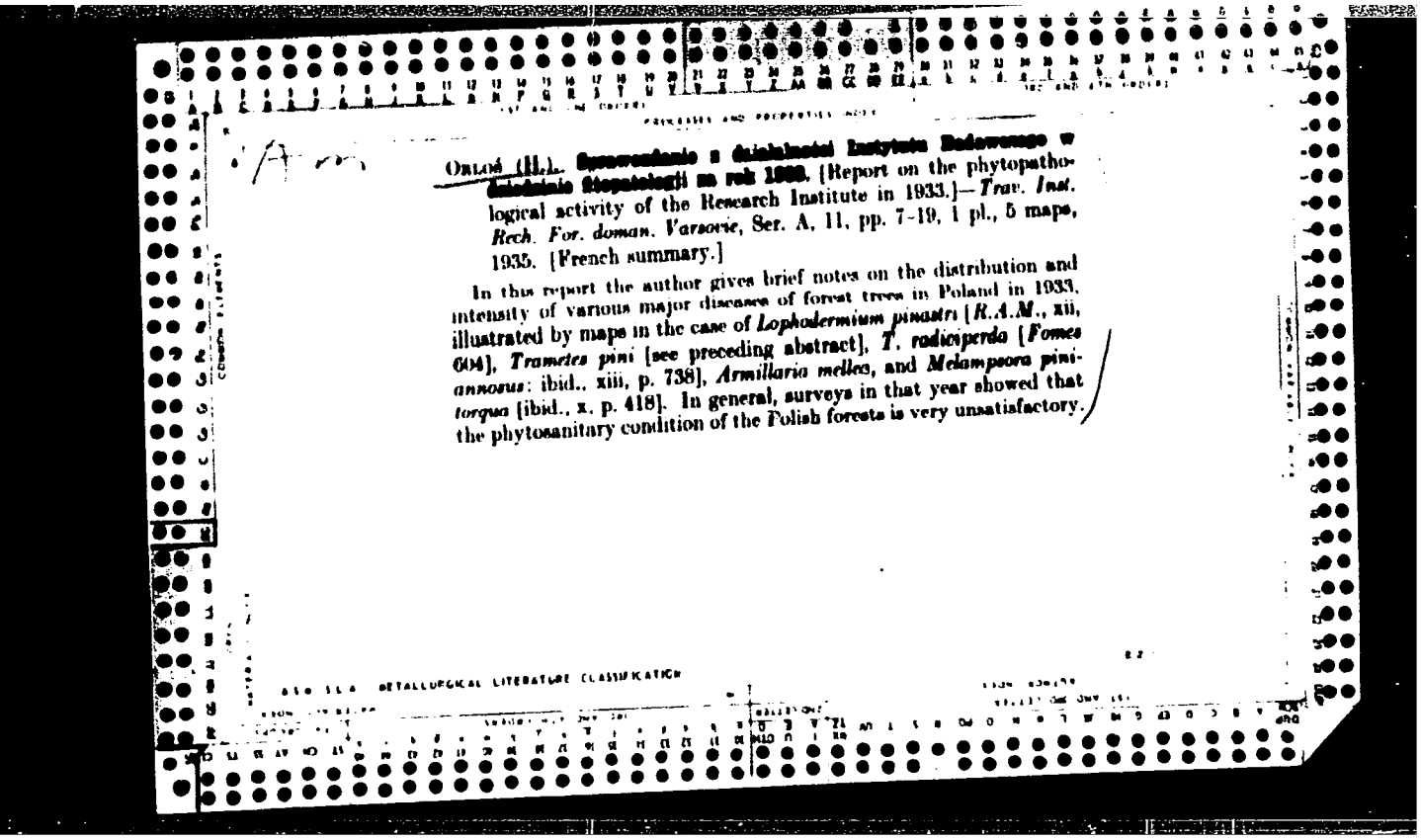
SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

GOTH, Endre, dr.,; LENGYEL, Lorant, dr.,; ORLOS, Endre, dr.,; SAVELY, Caesar, dr.

Modern therapy of Cushing's syndrome with special reference to subtotal adrenalectomy. Orv. hetil. 96 no.29:807-810 17 July 55.

1. A III. ker. Tanacs Margit Korhaza Bel-(foorvos: Goth Endre dr., az orvostudomanyok kandidatusa) es Sebeszeti Osztalyanak (foorvos: Orlos Endre dr.) kozlemenye.

(CUSHING SYNDROME, surgery,
adrenalectomy, subtotal)
(ADRENAL GLAND, surgery
excis., subtotal, in Cushing synd.)



ORLOŚ (H.). **Sprawozdanie z działalności Instytutu Badawczego w dziedzinie fitopatologji za rok 1933.** [Report on the phytopathological activity of the Research Institute in 1933.]—*Trav. Inst. Rech. For. doman. Varsovie*, Ser. A, 11, pp. 7–19, 1 pl., 5 maps, 1935. [French summary.]

In this report the author gives brief notes on the distribution and intensity of various major diseases of forest trees in Poland in 1933, illustrated by maps in the case of *Lophodermium pinastri* [*R.A.M.*, xii, 604], *Trametes pini* [see preceding abstract], *T. radiciperda* [*Fomes annosus*: ibid., xiii, p. 736], *Armillaria mellea*, and *Melampsora pinitorqua* [ibid., x, p. 418]. In general, surveys in that year showed that the phytosanitary condition of the Polish forests is very unsatisfactory.

ORLOS, HENRYK.

Grzby jadalne i trujace; praktyczny podrecznik z zakresu zbioru i przerobu grzybow. Warszawa, LAS, 1949, 216 p. (Instytut Badawczy Lesnictwa. Podreczniki. Seria D, nr. 3) (Edible and poisonous mushrooms; a practical handbook on mushroom harvesting and preparation.

DLC: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

ORLOS, H.

"Zwalczanie macznika Microsphaera alphitoides Griff. et Maubl. w szkolkach debowych. Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1951. 55p. (Warsaw. Instytut Badawczy Lesnictwa. Prace, nr. 67) (Fight against the powdery mildews (Microsphaera alphitoides Griff and Maubl.) French and Russian summaries. illus., bibl., tables)

SO: East European Accessions List, Vol 3, No 8, 1954

ORLOS, H.

"Badania nad zwalczaniem sinizny drewna w Polsce. Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1951 66p. (Warsaw. Instytut Badawczy Lesnictwa. Prace, nr. 70) (Research on prevention of the bluing of wood in Poland. Russian summary. illus., bibl., tables)

SO: East European Accessions List. Vol 3, No 8, Aug 1954

ORLOS, HENRYK

Przewodnik do oznaczania chorob drzew i zgnilizny drewna. Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1951. 324 s. (Guidebook for determination of tree diseases and putrefaction of wood)

DA Not in DLC

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

ORLOS, HENRYK.

Atlas grzybow jadalnych i trujacych. Wyd. 2., poprawione i uzupelnione. Opracowali: tekst H. Orlos, tablice barwne M. Hehring. Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1953. 105, (2) p. (Atlas of edible and poisonous mushrooms. 2ed ed. rev. and enl. illus.)

MiD Not in DLC

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

ORLOS, HENRYK.

Atlas grzybow jadalnych i trujacych. Wyd. 3. uzup. Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1955. 129 p. (Atlas of edible and poisonous mushrooms. 3d ed.) DA Not in DLC Poland

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

ORLOS, H.

ORLOS, H. New trends in forest phytophathology. p. 11.

Vol. 29, no. 8, Aug. 1955
LAS POLSKI
AGRICULTURE
Poland

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

ORLOS, H.

Orlos, H. Difficulty in evaluating the danger of injurious fungi to wood. p. 19.

LAS POLSKI

Vol. 29, no. 6, June 1956 Warszawa. Poland

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 5, No. 10 Oct. 56

ORLOS H.

COUNTRY :
CATEGORY : [illegible] of Forest [illegible]

ABS. JOUR. : Ref.Biol., No. 21 19[illegible], [illegible]

AUTHOR : [illegible] H.
INST. :
TITLE : [illegible]

ORIG. PUB. : [illegible] 19[illegible], vol.15, [illegible]

ABSTRACT : In the department of phytopathology [illegible] the [illegible] Institute of Forestry (Poland) in [illegible] studies were [illegible] under [illegible] conditions of pure cultures of Polyporus borealis Fr., [illegible] Swollen [illegible] the roots of spruce. [illegible] of the [illegible], [illegible] marginatus demonstrated [illegible] characteristic properties [illegible] swollen [illegible] others. [illegible] described, along with the

CARD: 1/2

ORLOS, H.

Researches on combating the Armillaria mellea Vahl. by biological means. p. 195.
(Roczniki Nauk Lesnych, Warszawa, Vol. 15, 1957.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

ORLOS, H.
OBMINSKI, Z.

Methods of evaluating the ecologic function of fungi in a forest environment. p.103

SYLWAN . (Wydzial Nauk Rolniczych i Lesnych Polskiej Akademii Nauk i Polskie Towarzystwo Lesne) Warszawa, Poland (Journal on forestry issued by the Section of Agricultural and Forestry Sciences, Polish Academy of Sciences; and the Polish Society of Forestry; with English and Russian summaries. Includes supplements; Biuletyn Instytutu Badawczego Lesnictwa, bulletin of the Forest Research Institute; Biuletyn Instytutu Technologii Drewna, bulletin of the Institute of Wood Technology; Przeglad Dokumentacyjny Drzewnictwa, documentation of the Institute of Wood Technology; and Prezeglad Dokumentacyjny Lesnictwa, documentation of the Forest Research Institute. Monthly).
Vol. 101, no. 3, Mar. 1957

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

ORLOS, H.

Most harmful epiphytes in Polish forests. p. 31

SYLWAN (Wydzial Nauk Rolniczych i Lesnych Polskiej Akademii Nauk i Polskie Towarzystwo Lesne) Warszawa, Poland. Vol. 103, no. 3, Mar 1959

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

ORLOS, Henryk; DOMINIK, Tadeusz

Notes on the biology of root Fomes (Fomes annosus (Fr.)Cooke).
Sylwan 104 no.1:1-13 Ja '60.

ORLOS, Henryk

Preliminary report on observations on symbiont fungi spore germination. Sylwan 104 no.1:90-93 Ja '60.

1. Zaklad Fitopatologii Lesnej, Instytut Badawczy Lesnictwa, Warszawa.

KORENY? BOTH, Andras, dr.; OKLOS, Ildiko IV. o.h.

Primary fibrous papilloma of the pericardium. Orv. hetil. 105 no.48:2286-2287 29 N '64.

1. Hodmezovarsarhelyi Varosi Tanacs Korhaza, Prosectura.

ORLOS,Z; DYLAG, T.

Measuring stresses by the comparative method of half-trepanning. p. 137.

ROZPRAWY INŻYNIERSKIE. (Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki) Warszawa, Poland.
Vol.7, no.3, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol.8, no.1, Jan. 1960.

Incl.

ORLOS, Zbigniew (Warszawa)

Crack near the edge of an elastic semi-plane. Archiw inz lad 6 no.1: 93-116 '60.

36445
S/137/62/000/003/121/191
A060/A101

12.1200

AUTHORS: Dylag, Z., Orloś, Z.

TITLE: Effect of preliminary deformation upon the cyclic endurance of structural steel containing 0.18% C

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 26, abstract 3I156 ("Wytrzymałość zmęczeniowa tworzyw i elementów metalowych". Warszawa, 1961, 184, Polish)

TEXT: The effect of preliminary plastic tensile deformation upon the σ_w of steel with 0.18% C was investigated. The specimens had an annular notch. Under a preliminary deformation by 5% no increase in σ_w was observed. After deforming by 10% the σ_w was increased by 6%. Deformation by 15 and 20% caused an 8% increase in σ_w. Thus, the preliminary uniform plastic deformation caused an increase in the σ_w of the steel, albeit not to the extent indicated by other authors. The discrepancy between the data of various authors is explained by the utilization of different specimens and methods of loading and bears a quantitative rather than a qualitative character. The lowering of σ_w observed by some authors is explained by the effect of the surface layer.
[Abstracter's note: Complete translation] M. Shapiro

Card 1/1

ORLOS, Zbigniew, dr., inz.

Stress condition analysis in the flat convex wedge.
Biul inform inst techn bud no.9:64-70 '61

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ORLOS, Z.

Arbitrary inclined crack intersecting the edge of an elastic semiplane. Bul Ac Pol tech 10 no.9:525-530 '62.

1. Presented by W.Nowacki.

DYLAG, Zdzislaw, mgr inz.; ORLOS, Zbigniew, dr inz.

Certain methods of statistical elaboration of fatigue test results. Konstrukcje budow inszyn no.20/21:3-46 '62.

DYLAG, Zdzislaw, mgr inz.; ORLOS, Zbigniew, dr inz.

Fatigue testing installations. Konstrukcje budow inzyn no.20/21: 47-88 '62.

DYLAG, Zdzislaw, mgr.,inz; ORLOS, Zbigniew, dr.,inz.

Material fatigue hypotheses. Przegl mech 21 no.4:118-119 '62.

1. Wytwornia Artykulow Technicznych, Warszawa

ORLOS, Z.; DYLAG, Z. (Warszawa)

Photoelastic studies on the stresses produced by thermal loads.
Rozpr inż, PAN 11 no.2:335-349 '62.

ORLOS, Zbigniew

Certain problems of research on residual stresses.
Konstrukcje budow inzyn no.27:1-95 '63.

ORLOV, A.

Inculcating progressive methods of work. Prof.-tekh. obr. 21 no. 4: 28 Ap '64. (MIRA 17:5)

1. Direktor uchebnogo kombinata tresta "Bashneftepromstory".

ORLOV, A.

Application of electronic computers in calculating radiation disturbances in metals. Atom. energ. 11 no.1:84-87 Jl '61. (MIRA 14:7)

(Electronic analog computers) (Metals--Testing)

ORLOV, A.A.

62

Effect of Pressure on the Solubility of Molecular Hydrogen in the β-Phase of the System Palladium-Hydrogen. P. D. Permiakov, A. A. Orlov, and A. N. Frumkin (*Doklady Akad. Nauk S.S.S.R.*, 1952, 84, (4), 749-752).—[In Russian]. A Pd specimen was placed in a bomb of accurately known vol. (20 c.c.) which could be filled with H; an equal vol. of Ag was placed in a similar bomb of identical vol. The solubility of H in Pd ([H]/[Pd]) was then measured by comparing the amounts of free H in each system when under the same pressure (P), allowance being made for the change in vol. of the Pd on dissolving the H. The results are tabulated; using Pd wire 0·1 mm. in dia., as P increased from 1 to 700 atm, [H]/[Pd], in g.-atom H/g.-atom Pd, increased from 0·700 to 0·870 at 15° C.; and from 0·560 to 0·774 at 38° C. Using Pd black prepared by reduction of purified $(NH_4)_2PdCl_4$ with H at 150°–200° C., data obtained at temp. (T) of 195°–373° K. over the pressure range 0·0146–1700 atm. satisfied the relation: $\ln P = a + b[H]/[Pd]$. The values of the const. a and b agree well with those for specimens of Pd black obtained by reduction of $(NH_4)_2PdCl_4$ with hydrazine hydrochloride, but not with those for Pd wire. The const. can also be derived electrochem.; if ϕ is the electrode potential $[H]/[Pd] = a - q\phi = a + (kT/2F)\ln P$, so that $b = RT/2F$. Values of a and b calculated from the electrochem. data of Fedorova (Dissertation, Moscow Univ., 1949) agree well with the values obtained by solubility measurements at 273° and 290° K., but at 241° and 323° K. the agreement is less satisfactory. At low temp. the electrochem. method is probably the more accurate.—S. V. R. T.

SHILYAYEV, P.N., kand.tekhn.nauk; ORLOV, A.A., inzh.

Experimental study of the stress condition of steam boiler furnaces based on studies of the boiler of the steamer "Borodino". Trudy LIIVT no.26:310-312 '59. (MIRA 14:9)
(Boilers, Marine)

IYEVLEV, P.M. ; ORLOV, A.A.

Reconditioning by built-up welding of cylinder sleeves for internal combustion engines. Avtom.svar. 15 no.4:82-84 Ap '62. (MIRA 15:3)

1. Leningradskiy institut vodnogo transporta.
(Gas and oil engines--Maintenance and repair)

ORLOV, A.A., inzhener.

Efficient design of machinery used in making two-layer plane-spiral transducers of wire resistance. Priborostroenie no.9:21-22 S '57. (MIRA 10:10)

(Transducers)

ORLOV, Andrey Alekseyevich; YAKOVLEV, Valeriy Vladimirovich; LABUTIN, V.K., red.; LARIONOV, G.Ye., tekhn. red.

[Simple transistor testers] Prosteishie izmeritel'nye pribory dlia proverki tranzistorov. Moskva, Gosenergoizdat, 1963. 15 p. (Massovaia radiobiblioteka, no.477) (MIRA 16:11)

(Transistors--Testing)

ORLOV, A. A., Cand Tech Sci -- (diss) "Research into behavior of roof rocks in the application of beams of constant resistance on the gently sloping layers of the Donbass." Leningrad, 1960. 17 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Mining Inst im G. V. Plekhanov); 200 copies; price not given; printed on duplicating machine; list of works of author at end of text (10 entries); (KL, 17-60, 157)

KUZNETSOV, S.T., kand.tekhn.nauk; GLUSHIKHIN, F.P., inzh.; ORLOV, A.A., inzh.

Comparative laboratory tests of metal supports having an increasing and constant resistance. Ugol' Ukr. 4 no.3:26-29 Mr '60. (MIRA 13:6)

(Mine timbering--Testing)

ORLOV, A.A., inzh.; ZHUKOV, A.A., inzh.

Light OKU-OIA screw posts used for caving. Ugol' Ukr. 4 no.10:42 O '60. (MIRA 13:10)
(Mine timbering)

ORLOV, A.A., gorn.inzh.

Lamination of roof rocks during stoping. Ugol' 35 no.5:44-47 My '60. (MIRA 13:7)
(Rock pressure) (Stoping (Mining))

SADYKOV, N.M., inzh.; ORLOV, A.A., inzh.

Performance of G3 hydraulic supports during sudden roof subsidence. Ugol' Ukr. 5 no.9:25-26 S '61. (MIRA 14:9)
(Mine timbering--Hydraulic equipment)
(Subsidences (Earth movements))

GLUSHIKHIN, F.P., inzh.; ORLOV, A.A., inzh.

Spontaneous yielding of friction props in mines and ways to control it. Ugol' 37 no.9:21-23 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.

(Mine timbering)

ORLOV, A.A., kand.tekhn.nauk; ZHUKOV, A.A., inzh.

Study of the performance of the KM-9 steel support unit for thin flat seams. [Trudy] VNIMI no.45:246-253 '62. (MIRA 16:4)
(Mine timbering—Equipment and supplies)

VAVILOV, Vyacheslav Viktorovich; ORLOV, Anatoliy Aleksandrovich; BARANOVSKIY, F.I., otv. red.; SHKLYAR, S.Ya., tekhn. red. MAKSIMOVA, V.V., tekhn. red.

[KM-9 and KM-9 coal-mining units] Ugledobyvaiushchie kompleksy KM-9 i KM-9D. Moskva, Gosgortekhizdat, 1963. 111 p. (MIRA 16:9)

(Coal mining machinery)

ANTSUPOV, I. V., ORLOV, A. A.

Structural geology of the Bukovina section of the Carpathians. Neft. i gaz. prom. no. 1, 58 [illegible]

(MIRA [illegible])

[illegible]CHAV, [illegible]

Geological struct[illegible] of the [illegible]-Bukovina Carpathians according to the data of key-hole drilling. Izv. [illegible] zav.; neft' i gaz [illegible] no.8:17-2[illegible] [illegible]

[illegible]

1. L'vovskiy [illegible]tekhnicheskiy institut.

ORLOV, A.A.

Conference [illegible] papers [illegible] read at the [illegible] of Physical and Technical Problems of Mining. Fiz.-tekh. probl. razrab. pol. iskop. no.[illegible] 92-93 '6[illegible].

[illegible]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123[illegible]

ANTSUPOV, P.V.; BORODATYY, I.I.; ORLOV, A.A.; PROSNYAKOV, A.V.

Prospects for finding commercial gas in the Bukovina part of the outer zone of the Carpathian piedmont fault. Neftegaz. geol. i geofiz. no.3:37-38 '65. (MIRA 18:7)

1. Trest "L'vovneftegazrazvedka".

ORLOV, A.A., kand. tekhn. nauk; SHAFIB, T.I., inzh.

Discussing problems of rock pressure. Ugol' 40 no.4:74-75 Ap '65. (MIRA 18:5)

1. Uchenyy sekretar' Tsentral'noy komissii po problemam gornogo davleniya (for Orlov).

GRIN'KO, N.K.; ORLOV, A.A., kand. tekhn. nauk; SADYKOV N.M., kand. tekhn. nauk

Prospects for the use of hydraulically powered supports in flat seams of the "Luganskugol'" Combine. Ugol' 40 no.12:40-43 D '65. (MIRA 18:12)

1. Glavnyy inzh. kombinata Luganskugol' (for Grin'ko).
2. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut (for Orlov, Sadykov).

I 47186-66 EWT(1)/EWP(m)/T GW

ACC NR: AR6021905 SOURCE CODE: UR/0313/66/000/003/0022/0022

AUTHOR: Orlov, A. A.

TITLE: Lunar-solar disturbances in the motion of artificial earth satellites

SOURCE: Ref. zh. Issl kosm prostr, Abs. 3.62.200

REF SOURCE: 15 Internats. kongress po astronavtike, Varshava, sent., 1964

TOPIC TAGS: three body problem, three body motion problem, artificial earth satellite motion, artificial satellite motion disturbance

ABSTRACT: A three-body problem is investigated: that of a planet, a satellite, and the Sun. These bodies are viewed as material points. It is assumed that the Sun moves along a circle near the center of a planet-satellite system of masses, and that the relationship $m = n_2/n_1$, representing the ratio of the mean motion of the Sun n_2 to the mean motion of the satellite n_1 around the planet, has a small value. An analysis is made of the motion of a satellite characterized by any eccentricity e and inclination i of its orbit in relation to the plane of the Sun's motion. Zeipel's method is used to reduce the initial system of differential

Card 1/2

L 47186-66

ACC NR: AR6021905

equations for the satellite's motion to a simpler system, which is then solved by squaring. Final formulas, which represent the solution, are expressed by elliptical functions. Periodic terms are determined inclusive up to the first power m, and the secular — up to the third. Perturbation function expansion terms, which are a function of the ratio of the large half axis of the satellite's orbit to the large half axis of the orbit of the disturbing body, are ignored. The author considers that the effect of these terms on secular disturbances in elements of the satellite's orbit is not large, since these disturbances are a function of only the second and higher powers of the indicated relationship. R. Yeremenko. [Translation of abstract]

[SP]

SUB CODE: 12, 20, 22/

Card 2/2 egh

ORLOV, A.A.

Calculating temperature fields in the hard facing of cylindrical parts. Avtom. svar. 16 no.11:1-9 N '63. (MIRA 17:1)

1. Leningradskiy institut vodnogo transporta.

L 25668-65 EWT(1)/EEC(a)/ENP(m)/FS(v)-3/EEC(j)/EEC(r)/ENG(v)/EWA(d) Pe-5/Po-4/
ACCESSION NR: AP5001547 Pq-4/Pg-4 S/0188/64/000/006/0080/0088
GW

AUTHOR: Orlov, A. A.

TITLE: The effect of the third and fifth harmonics in the expansion of the force function of attraction of a planet on the motion of its satellite

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 6, 1964, 80-88

TOPIC TAGS: planet motion, satellite motion, celestial mechanics, planetary attraction, force function expansion

ABSTRACT: The paper is an extension of earlier work by the author, in which the coordinates of a satellite were obtained when only even harmonics were taken into account, to the [illegible] third and fifth harmonics. The author commences with the solution of the

involve only odd-harmonic terms. ...

Card 1/2

L 25668-65

ACCESSION NR: AP5001547

relative to the third and fifth harmonics, in terms of the coordinates of the satellite of a nonspherical planet. The final result takes the form of the sum of terms of two types: periodic terms, involving only sines and cosines, and mixed terms which involve products of periodic terms times the unperturbed true anomaly. Orig. art. has: 33 equations.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: AA

NO REF SOV: 001 OTHER: 000

Card 2/2

Cand Physico [illegible]

ORLOV, A. A.

"Spatial Periodic Solutions in the Limited Problem of Three Points." Sub 26 Jun 47, Moscow Order of Lenin State U imeni M. V. Lomonosov

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

CRLOV, A. A.

Mechanics, Celestial

Spatial periodic solutions in a finite problem of three points., Trudy MIAN., 38, no. 2, 1950.

9. Monthly List of Russian Accessions, Library of Congress, April 1958, Uncl.

ORLOV, A.A.

Periodic orbits of great inclination in a restricted problem of three points. Part 2: Almost circular periodic orbits of an arbitrary inclination in a once-regularized restricted circular problem of three points of Fatout. Trudy GAISH 21:25-26 '52. (MLRA 7:6)
(Problem of three bodies)

1. [illegible]LOV, [illegible].

[illegible]. USSR ([illegible])

[illegible]. [illegible] - Rotation

7. Semiannual [illegible] rotation [illegible], 1953.

9. **Monthly List of Russian Accessions**, Library of Congress, June 1953. Unclassified.

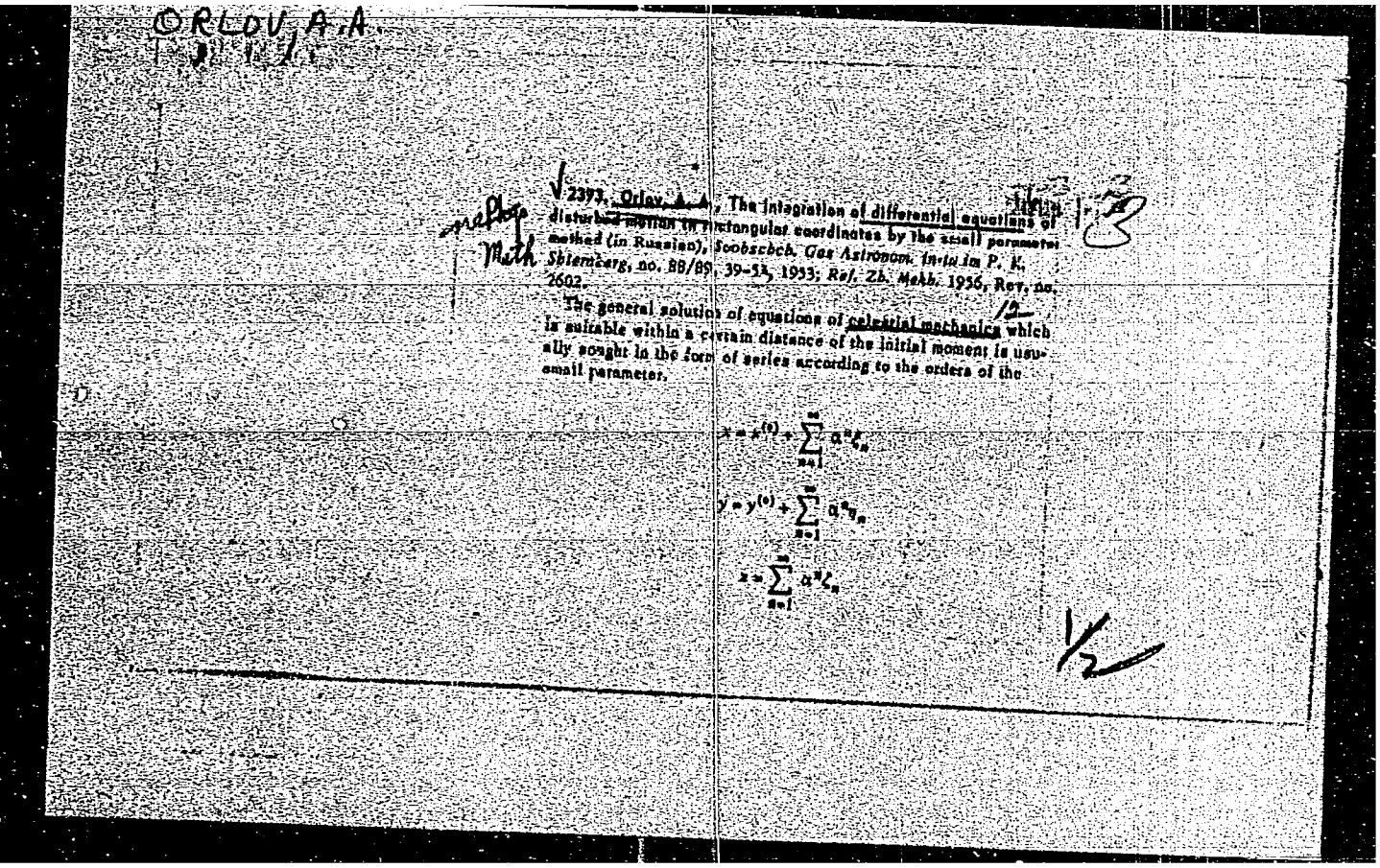
1. ORLOV, A.
2. USSR (600)
4. Latitude variation
7. Latitude service of the U. S.S. R. Astron. tsir. no. 132, 1952

9. **Monthly List of Russian Accessions**, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ORLOV, A.A.

Almost circular periodic motions of a particle of matter under the gravitational attraction of a spheroid. Soob.GAISH no.88/89:3-38 '53.
(Orbits) (MLRA 7:5)



ORLOV, A.A.

2373. Orlov, A. A. The integration of differential equations of disturbed motion in rectangular coordinates by the small parameter method (in Russian), *Soobsch. Gos Astronom. Inst-ia im P. K. Shternberga*, no. 88/89, 39–53, 1953; *Ref. Zh. Mekh.* 1956, Rev. no. 2602.

The general solution of equations of celestial mechanics which is suitable within a certain distance of the initial moment is usually sought in the form of series according to the orders of the small parameter.

$$x = x^{(0)} + \sum_{n=1}^{\infty} a^n \xi_n$$

$$y = y^{(0)} + \sum_{n=1}^{\infty} a^n \eta_n$$

$$z = \sum_{n=1}^{\infty} a^n \zeta_n$$

ORLOV, A. A.

where $x^{(0)}, y^{(0)}$ are rectangular coordinates in the plane of the nondisturbed orbit. For the determination of ξ_n, η_n, ζ_n, linear nonhomogeneous equations are obtained, the left hand sides of which do not depend on n. Following Lyapunov, who used this method in a paper relating to Hill's series on the theory of Luna, author introduces, instead of ξ, η, ζ, the new complex variables

$$\varphi = \frac{1}{r^{(0)}}(\xi + i\eta)e^{-iv}, \quad \psi = \frac{1}{r^{(0)}}(\xi - i\eta)e^{iv}$$

$$\rho = \frac{p^{3/2}}{\mu^{1/2}r^{(0)}}\zeta,$$

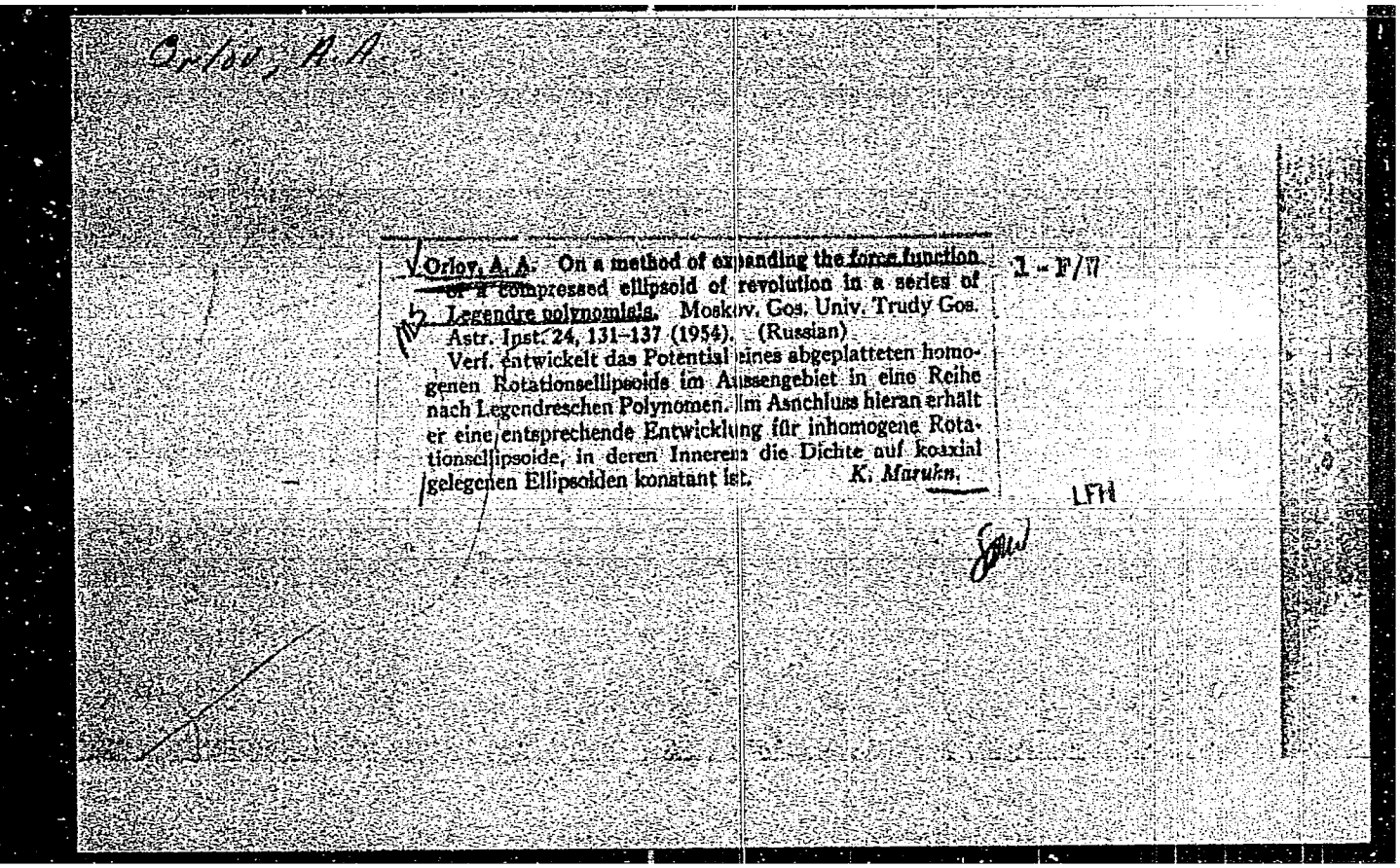
where $i = \sqrt{-1}$, and $r^{(0)}$ and v are the radius vector, and the true anomaly of the nondisturbed Keppler orbit. The equations in variations are then written in a simple form. Differentiating the general solution of nondisturbed motion according to six arbitrary parameters, author finds the fundamental system of solutions of the system of equations for variations. Then, with the aid of the variation method of arbitrary constants, the solutions of the nonhomogeneous systems for ξ_n, η_n, and ζ_n are found.

G. Merman, USSR

Courtesy Referativnyi Zhurnal
Translation, courtesy Ministry of Supply, England

B

E E Anz
SMW
2/2



Orlov, A. A.

Orlov, A. A. On a method of expanding the force function of a compressed ellipsoid of revolution in a series of Legendre polynomials. Moskov. Gos. Univ. Trudy Gos. Astr. Inst. 24, 131–137 (1954). (Russian)

Verf. entwickelt das Potential eines abgeplatteten homogenen Rotationsellipsoids im Aussengebiet in eine Reihe nach Legendreschen Polynomen. Im Anschluss hieran erhält er eine entsprechende Entwicklung für inhomogene Rotationsellipsoide, in deren Innerem die Dichte auf koaxial gelegenen Ellipsoiden konstant ist. *K. Maruhn.*

1-F/7

LFH

PHASE I BOOK EXPLOITATION SOV/4424
SOV/60-3-7(90)

Akademiya nauk SSSR. Institut teoreticheskoy astronomii.

Byulleten', No 7, no. 7(90) (Bulletin of the Institute of Theoretical Astronomy, Academy of Sciences USSR, Vol. 7, No. 7(90)). Moscow, 1960. 501-579 p. Errata slip inserted. 1,000 copies printed.

Resp. Ed.: G.A. Chebotarev, Professor; Tech. Ed.: V.T. Bocharev.

PURPOSE: This publication is intended for astronomers and those interested in astronomy.

COVERAGE: The publication contains 8 articles dealing with artificial celestial bodies and related theoretical problems. Observations of earth satellites and their orbits, motion, and perturbations are discussed, and calculations relating to the earth's oblateness are given. The articles are accompanied by summaries in English, French, or German. References follow most of the articles.

TABLE OF CONTENTS:

Card 2/3

AVAILABLE: Library of Congress

Card 3/3

S/188/60/000/003/011/011/XX
B004/B064

24.4200

AUTHOR: Orlov, A. A.

TITLE: An Approximated Representation of the Potential of the Gravitational Attraction of Two Bodies

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 3. fizika, astronomiya, 1960, No. 3, pp. 69-76

TEXT: The aim of the present investigation is the series expansion of the gravitational potential between two bodies of arbitrary shape with respect to homogeneous spherical functions up to the fourth power. First, the gravitational potential V of a body with respect to an external point is investigated, and the following relation is written down:

$V(X,Y,Z) = fm \int_P \varkappa d\tau / \left[(X-\xi)^2 + (Y-\eta)^2 + (Z-\zeta)^2\right]^{1/2}$, where f denotes the gravitational constant, X, Y, Z are the coordinates of the point Q, ξ, η, ζ are the coordinates of an arbitrary point of the body P, $\varkappa$ is the density at this point, $d\tau = d\xi\, d\eta\, d\zeta$ is the element of volume of P. After

Card 1/2

84937

An Approximated Representation of the Potential of the Gravitational Attraction of Two Bodies

S/188/60/000/003/011/XX
B004/B064

the introduction of the greatest linear dimension l of P, the potential is expanded in a series in the spherical coordinates R, Q, ψ of Q up to the fourth power of 1/R. For the gravitational potential U of the mutual attraction of two bodies P and P', the following relation is written down: $U = f\int_{P'}\int_{P} \kappa\kappa' (d\tau d\tau / \Delta)$, and the series expansion is carried out up to the fourth power of 1/r and 1/r'. The author mentions papers of M. S. Yarov-Yarovoy. There are 2 Soviet references.

ASSOCIATION: Kafedra nebesnoy mekhaniki i gravimetrii (Chair of Celestial Mechanics and Gravimetry)

SUBMITTED: December 14, 1959

Card 2/2

22419
S/044/61/000/001/007/013
C111/C222

3.9200

AUTHOR: Orlov, A.A.

TITLE: On the calculation of terms being of second order with respect to the contraction of the earth, in the coordinates of artificial satellites

PERIODICAL: Referativnyy zhurnal, Matematika, no.1, 1961, 49, abstract 1B 210. (Byul.In-ta teor.astron. AN SSSR, 1960, 7, no.7, 549-551)

TEXT: The author considers the motion of an artificial satellite in the gravitational field of the earth which is understood as a body of revolution being symmetric to its equatorial plane. The power function of the gravitation is written in the form

$$U = \frac{fM}{r}\left[1+q_2\left(\frac{\bar{a}}{r}\right)^2\left(\frac{1}{2}-\frac{3}{2}\frac{z^2}{r^2}\right)+\left(\frac{\bar{a}}{r}\right)^4\left(\frac{3}{8}-\frac{15}{4}\frac{z^2}{r^2}+\frac{35}{8}\frac{z^4}{r^4}\right)+\ldots\right],$$

where f -- gravitational constant, M -- earth mass, $q_2, q_4, \ldots$ --parameters describing the form and the structure of the earth, $\bar{a}$ -- equatorial radius, and x,y,z -- the coordinates of the satellite. The motion being carried

Card 1/2

On the calculation of terms...

22413
S/044/61/000/001/007/013
C111/C222

out according to the laws of Kepler and determined by the power function with $q_2 = q_4 = 0$ is called the undisturbed initial motion of the satellite. The disturbed motion is defined by series ordered in terms of powers of the above mentioned parameters, where q_2 is a magnitude of first order and q_4 is a magnitude of fourth order with respect to the construction of the earth. In the present paper the author only gives a method which permits the determination of the perturbations of second order. Detailed formulas are not given in the paper.

[Abstracter's note: Complete translation.]

Card 2/2

32374
S/124/61/000/012/004/038
D237/D304

IC 5360

AUTHOR: Orlov, A. A.

TITLE: On the existence of periodic motion of point-mass in the gravity field of a spheroid in a critical case

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 12, 1961, 10, abstract 12A72 (Byul. In-ta teor. astron. AN SSSR, 1960, 7, no. 10, 805-810)

TEXT: The article complements the author's work (Soobshch. Gos. astron. in-ta im. P. K. Shternberga, 1953, 88-89, 3-38) in which he proved the existence and found periodic solutions up to 2nd order approximations, ref. oblateness of the spheroid, for any angle of inclination of a non-perturbed circular orbit to the equatorial plane of the spheroid, except for the value of $63^{\circ}26'$ or $116^{\circ}34'$ ($\sin^2 I = 4/5$). The latter case (called critical by the author) was not investigated as for that value Poincaré's

Card 1/2

On the existence of

S/124/61/000/012/004/038
D237/D304

jacobian becomes zero. This case is considered in the present work. The independent variable t in the system of differential equations of motion of the point-mass is transformed into the latitude argument u, and the author seeks a solution of the latter series in powers of magnitude characterizing the oblateness of the spheroid up to the 3rd order terms. [Abstracter's note: Complete translation.]

Card 2/2

S/033/60/037/005/015/024
E032/E514

AUTHOR: Orlov, A. A.

TITLE: On a Generalization of the Roche Model

PERIODICAL: Astronomicheskiy zhurnal. 1960, Vol 37, No.5 pp 902-907

TEXT: A generalized Roche model is applied to the case of a double star, the point nuclei of the usual Roche model being substituted by polytropic gas nuclei of finite dimensions. Calculations for the cases m = 1 and m = 0.5, where m is the ratio of the masses, for different values of the parameters of the nuclei, showed that the difference between the surfaces of contacting double stars obtained on this generalized model and those obtained on the usual Roche model is very small. Thus, the above generalization does not lead to essential differences from the usual Roche model.
Acknowledgments are expressed to Professor D. Ya. Matynov for valuable advice. There are 1 figure, 1 table and 6 English references.

ASSOCIATION: Astronomicheskiy institut imeni P. K. Shternberga
(Astronomical Institute imeni P. K. Shternberg)

SUBMITTED: December 15, 1959

Card 1/1

S/035/62/000/004/003/056
A001/A101

3.1400

AUTHOR: Orlov, A. A.

TITLE: On formulae representing near-circular motions of a material point in the gravitational field of a spheroid

PERIODICAL. Referativnyy zhurnal, Astronomiya i Geodeziya, no. 4, 1962, 12, abstract 4A117 ("Soobshch. Gos. astron. in-ta im. P. K. Shternberga", 1960, no. 108, 19 - 22)

TEXT: The author finds the causes for differences between some formulae derived by him for near-circular motions in a spheroid's field (RZhAstr, 1953, no. 3, 1139) and analogous Brower's formulae (RZhAstr, 1958, no. 10, 7822). One of the main causes is the different form of expanding the force function of a spheroid's gravitational field into a series in powers of 1/r. Moreover, the appearance of formulae describing a motion depends on the form of presentation of some integration constants in the equations of motion.

[Abstracter's note: Complete translation] B. G.

Card 1/1

S/034/60/000/209/009/009
E032/E114

AUTHOR: Orlov, A.A.

TITLE: Conference on Problems in the Mathematical Theory of Motion of Artificial Celestial Bodies

PERIODICAL: Astronomicheskiy tsirkulyar, 1960, No.209, pp.44-46

TEXT: The conference took place on December 22-25, 1959, at the State Astronomical Institute imeni P.K. Shternberg. One hundred persons attended The previous (and first) conference took place in May 1959 at the Institute of Theoretical Astronomy AS USSR in Leningrad. The conference was opened by the Director of the State Astronomical Institute Professor D.Ya. Martynov, and G.N. Duboshin. I D. Zhongolovich reported on his work on the theory of motion of artificial earth satellites and the determination of the earth's gravitational field parameters from artificial earth satellite observations. He has deduced the compression of the globe and its polar asymmetry.
Ye.A. Grebennikov read a paper on the computation of secular and periodic perturbations in the motion of artificial earth satellites due to atmospheric resistance.
Card 1/5

S/034/60/000/209/009/009
E032/E114

Conference on Problems in the Mathematical Theory of Motion of Artificial Celestial Bodies

Foreign theoretical work on the motion of AES was reviewed by A.A. Orlov.
G.M. Bazhenov spoke on the determination of AES orbits based on three observations, and Yu.V. Batrakov reported on the processing of observations of the third AES at the Institute of Theoretical Astronomy AS USSR. G.P Taratynova described a two-cycle method of calculation of AES orbits for large time intervals.
D.K. Kulikov discussed the application of the quadrature method of Cowell to the integration of equations of motion with an automatic interval selection.
G.N. Duboshin reported on the integration of differential equations for the rotational motion of AES having dynamical symmetry and whose ellipsoid of inertia is not very different from a sphere. V.T. Kondurar' read a paper on the translational-rotational motion of a spheroidal satellite. V.V. Beletskiy considered the motion of an AES about its centre of mass in the presence of gravitational and aerodynamic perturbations.

Card 2/5

S/034/60/000/209/009/009
E032/E114

Conference on Problems in the Mathematical Theory of Motion of Artificial Celestial Bodies

L.N. Sretenskiy was concerned with the motion of a point in the attractive field of a pulsating spheroid including the perturbing effect of periodic oscillations of the liquid covering the nucleus of a planet or elastic oscillations of the nucleus itself.
A.A. Orlov read a paper on the periodic motion of a mass point in the gravitational field of a spheroid in the critical case (inclination of orbit to equator = 63° 30').
Ye.P. Aksenov reported on a study of periodic motions of a mass point in the gravitational field of a rotating body.
A.V. Yegorova discussed her formulae for the perturbation of AES due to the attraction by the sun and the compression of the earth.
M.M. Pospergelis gave an account of his calculations of the trajectory of a rocket fired in the direction of the moon with a subsequent entry of the rocket into a selenocentric orbit.
M.S. Yarov-Yarovoy gave a paper on his analytical relation between the coordinates of a rocket and time, which includes factors due to non-sphericity of the earth, the resistance of the atmosphere

Card 3/5

S/034/60/000/209/009/009
E032/E114

Conference on Problems in the Mathematical Theory of Motion of Artificial Celestial Bodies

and solar and lunar perturbations.
Ye.P. Aksenov and V.G. Demin discussed the existence of periodic selenocentric orbits taking into account the non-sphericity of the moon and perturbations due to the earth.
Ye.A. Grebennikov used the Hill method to derive first approximation formulae for the motion of AES.
Other papers read at the conference included:
N.G. Magnaradze, "On the motion of artificial satellites with variable masses"; V.A. Brumberg, "Direct-hit trajectories in the limited problem of three bodies"; V.G. Demin, "Periodic orbits of the moon"; and Ye.P. Aksenov, "The effect of triaxiality of the earth on the motion of AES".
In the final session on December 25 general theoretical problems in celestial mechanics were discussed. B.M. Shigolev described a method of finding approximate solutions of certain problems in celestial mechanics based on the averaging of the right-hand sides of the differential equations of motion.

Card 4/ 5