NOCHEVA, M.; SIRAKOV, L.

A precise, convenient and simple micromethod for determination of urea. Suvrem med., Sofia no.2:100-104 '61.

l. Katedra po endokrinologiia i bolesti na obmianata, Institut za spetsializatsiia i usuvurshenstvuvane na lekarite. (Rukov. na katedrata prof. Iv. Penchev.)

(UREA chemistry)

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BULGARIA

LE COL MC P. SIRAKOV

"Microwave (Radar) Therapy in Deforming Arthroses."

Sofia, Voenno Meditsinsko Delo, Vol 18, No 3, Jun 63; pp 35-40.

Abstract : Microwave treatment of 50 men and 74 women; 89 of the 124 had spinal arthroses; 5 to 15 minutes' treatment, 40 to 80 watts at 8 to 10 cm. distance, daily treatments for 7 to 20 days: very good results in 43, good in 68, mediocre in 4, none in 9. No side effects but of 19 patients with insomnia latter symptom decreased in 6, disappeared in the other 13. Nurse who applied treatment as well as most patients did complain of lassitude and somnolence. Results similar to those with ultrasound. Siz tables; 4 Soviet, 3 Bulgarian and 3 Western references.

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SIRAKOV,	BURKOV, T., dots.; SIRAKOV, V.; VELICHKOVA, P.; TUZLUKOVA, L.; PEEVA, D.; POPOV, P.	
	Studies on distribution of dental caries in students in certain regions as the initial stage of presentation of the picture of dental caries in the country. Stomatologiia, Sofia no.3:153-167 1954.	
	l. Iz Republikansiia nauchno-izsledovatelski stomatologichen institut (direktor: dots. T.Burkov) (DENTAL CARINS, epidemiology, Bulgaria)	
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SIAAKOVA, N.; TODOROV, V.

"United in the Fight for Peace." p. 1, (ZDRAVEN FRONT, No. 51, Dec. 1954, Sofiya, Bulgaria)

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

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550820008-2"

SIRAKOVA, Mariia An enterprise moves ahead. Tekstilna prom 13 no. 4:32-35 '64. 1. Chairman, Treade-union Committee of the "Bulgaria" State Incustrial Enterprise, Plovdiv.

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APPROVED FOR RELEASE: 08/23/2000

GORGENYI-GOTTCHE, O.; SIRALY, F.; SZATMARY, M.

On isonicotinic acid hydrazide therapy of tuberculosis in puberty. Orv. hetil. 94 no.15:405-410 12 Apr 1953. (CLML 24:4)

1. Doctor, Candidate Medical Sciences for Gorgenyi-Gottche; Doctor for Siraly and Szatmary. 2. Szabadsaghegyi State Children's Sanatorium (Director -- Dr. Istvan Flesch).

APPROVED FOR RELEASE: 08/23/2000



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GORGENYI-GOTTCHE, Oszkar, dr., kandidatus; SIRALY, Ferencne, dr., TRLEDGI, Istvan, dr.

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1. A Szabadaaghegyi Allami Gyermekssanatorium) igazgato: Flesch Istvan dr.) kozlemenye. (TUBERCULOSIS, PULMONARY, surgery

lung resection in inf. & child., results (Hun)

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SIRALY, Ferenc, dr., foorvos
Problems in promoting the combat against tuberculosis.
Tuberk. kerdesei 9 no.5:200-203 Oct 56.
1. A Szabadsaghegyi Allami Tbc. Szanatorium (igazgato:
Vas, Imre, dr.) kozlemenye.
(TUBERCULOSIS, prev. & control
in Hungary, efficiency & organiz. problems (Hun))

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SIRALY, Ferenc, Dr., foorvos.

X-ray morphology of cavern healing. Tuberkulozis 11 no.3-5:97-103 Mar-May 58.

1. A Szabadsaghegyi Allami Tbc. Szanatorium (Igazgato: Vas Imre dr. az orvostudomanyok kandidatusa) kozlemenye. (TUBERCULOSIS, PULMONARY, pathol.

where the the set of t

cavitation, x-ray manifest. of healing process (Hun))

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SIRALY, Ferenc, dr., kandidatus, igazgatohelyettes, foorvos

Fate of 197 patients with cavitary tuberculosis and Koch-positive sputum 5 and half years after their release. Tuterinlosis 13 no.11: 340-344 N '60.

1. A Szabadsaghegyi Allami Tbc Szanatorium (igazgato-foorvos: Vas Imre dr. kandidatus) kozlemenye.

(TUBERCULOSIS PULMONARY statist)

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APPROVED FOR RELEASE: 08/23/2000

SIRALY, Ferenc, dr.; SEBES, Terez, dr.; SZASZ, Veronika, dr.

Postoperative roentgen shadows in the lung following pulmonary resection. Tuberkulozis 17 no.7:193-197 J1 '64.

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SIRAN, Gustav

Determination of secular changes in the geomagnetic field. Studia geophys 6 no.1:95-98 '62.

1. Natural Science Faculty, Komensky University, Bratislava, Nesporova 3, Bratislava.

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APPROVED FOR RELEASE: 08/23/2000

SAPARGALIYEV, G.S., kand. yurid.nauk; PAL'GOV, N.N., akad.; BOGATYREV, A.S.;
AFANAS'YEV, A.V., prof.; BYKOV, B.A.; SHAKHMATOV, V.F., kand. istor.
nauk; POKROVSKIY, S.N., akad.; SAVOS'KO, V.K., kand. istor. nauk;
NUSUPBEKOV, A.N., kand. istor. nauk; BAISHEV, S.B., akad.; GOROKHVODATSKIY, I.S., kand. istor. nauk; AKHMETOV, A., kand. istor. nauk;
RAKHIMOV, A., kand. istor. nauk; PIVEN', N.F.; CHULANOV, G.Ch., doktor
ekonom. nauk; BOROVSKIY, V.A., kand. ekonom. nauk; SYDYKOV, A.S., kand.
pedagog. nauk; ZHANGEL'DIN, T., kand. filos. nauk; KARASAYEV, L.K.;
KANAPIN, A.K., kand. istor. nauk; BELENOV, M.D., kand. ekonom. nauk;
KARYNBAYEV, S.R., kand. med. nauk; AKHMETOV, K.A., SMIRNOVA, N.S.,
doktor filolog.nauk; SIL'CHENKO, M.S., doktor filolog. nauk; YERZAKOVICH, B.G., kand. iskusstvovedcheskikh nauk; RYBAKOVA, N.; MUKHTAROV, A.I.; BOGATENKOVA, L.I.; KUNDAKBAYEV, B.; SIRANOV, K.S.; SHVYDKO, Z.A., red.; MAMTSOVA, L.B., red.; ZLOBIN, M.V., tekhn. red.

[The Soviet Kazakh Socialist Republic] Kazakhskaia Sovetskaia Sotsialisticheskaia Respublika. Alma-Ata, Kazakhskoe gos. izd-vo, 1960. 477 p. (MIRA 14:6)

Akademiya nauk Kaz.SSR (for Pal'gov, Pokrovskiy, Baishev)
 Chlen-korrespondent Akademii nauk KazSSR (for Bykov, Smirnova, Sil'chenko)

(Kazakhstan)

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CC NR: AP6024335 SOURCE CODE: UR/0428/66/000/001/0107/0110 52	
UTHOR: Sirata, M. M.; Smalyarenka, E. M.	
RG: none	
ITLE: Thermoelectric properties of $\frac{Zn_3As_2}{1} - \frac{Cd_3As_2}{2}$ alloys OURCE: AN BSSR. Vestsi. Seryya fizika-matematychnykh navuk, no. 1, 1966, 107-110	
OPIC TAGS: cadmium compound, zinc compound, arsenide, binary alloy, thermoelectric roperty, thermal emf, carrier density, electron mobility, hole mobility	
BSTRACT: The authors investigated the temperature dependence of the electric con- uctivity, Hall effect, and thermal emf of samples of the quasi-binary system Zn3As2 Cd3As2, in the temperature range $100 - 600$ K, and at a magnetic field intensity 000 Oe. The measurements showed that the type of conductivity changes with the com- ositions close to equimolar ($40 - 55\%$ Cd3As2) reversing their conductivity type with increasing temperature. This is also accompanied by a reversal of the sign of the hermal emf. Under the assumption that the zinc and cadmium provide the acceptor and lonor levels, the authors calculate the impurity density and the carrier mobility for several compositions. The calculations show that changes in the component ratios are accompanied by changes in the ratio of the acceptor and donor impurities, and this change is responsible for the reversal of the signs of the conductivity and of the	
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 STRATSKIY, A., Member of the Academy, President 30-11-16/23 AUTHOR: Siratskiy, A., Member of the Academy, President 30-11-16/23 of the Slovak Academy of Science TITLE: Science Serves Socialism (Nauka sluzhit sotsializmu). PERIODICAL: Vestnik AN SSSR, 1957, Vol. 27, Nr 11, pp. 116-117 (USSR) ABSTRACT: On the occasion of the jubilee of the USSR the author emphasizes that only the existence of a large state with a socialist order of society with its 40 years experience can serve as an example for the other peoples which have abolished the capitalistic system. Science above all contributed very much toward the fundamental changes that occurred in the people's republics. The scientiets of Czechoslovakia fulfill their duty toward the people from which they themselves emerged. The helpfulness of the so-
 TITLE: Science Serves Socialism (Nauka sluzhit sotsializmu). PERIODICAL: Vestnik AN SSSR, 1957, Vol. 27, Nr 11, pp. 116-117 (USSR) ABSTRACT: On the occasion of the jubilee of the USSR the author emphasizes that only the existence of a large state with a socialist order of society with its 40 years experience can serve as an example for the other peoples which have abolished the capitalistic system. Science above all contributed very much toward the fundamental changes that occurred in the people's republics. The scientists of Czechoslovakia fulfill their duty toward the people from which they themselves emerged. The helpfulness of the so-
ABSTRACT: On the occasion of the jubilee of the USSR the author emphasizes that only the existence of a large state with a socialist order of society with its 40 years experience can serve as an example for the other peoples which have abolished the capitalistic for the other peoples which have abolished the capitalistic system. Science above all contributed very much toward the fund- amental changes that occurred in the people's republics. The scientists of Czechoslovakia fulfill their duty toward the people from which they themselves emerged. The helpfulness of the so-
that only the existence of a largerience can serve as an example of society with its 40 years experience can serve as an example for the other peoples which have abolished the capitalistic for the other peoples which have abolished the capitalistic system. Science above all contributed very much toward the fund- system. Science above all contributed very much toward the fund- amental changes that occurred in the people's republics. The accientists of Czechoslovakia fulfill their duty toward the people scientists of Czechoslovakia fulfill their act, important part; it
viet scientiets as good correspond perific research work in the is above all owing to them that scientific research work in the people's republics attains ever new achievements. The author then enters into the numerous visits of the soviet colleagues on the enters into the numerous visits of the soviet colleagues on the one hand and of the Slovak scientists on the other hand. Finally one hand and of the signed agreement between the Slovak and
ASSOCIATION: Slovatskaya Akademiya nauk (Slovak Academy of Sciences) AVATLARIE: Library of Congress Card 1/1

DASHKEVICH, L.B.; SIRAYA, V.M.

Carbon subcxide and some of its reactions. Part 12: Interaction of carbon suboxide with primary aliphatic diamines, diamides, and hydrazine derivatives. Zhur.ob.khim. 32 no.7:2330-2333 Jl (MIRA 15:7) **1**62.

1. Leningradskiy khimiko-farmatsevlicheskly institut. (Amides) (Amines) (Carbon oxides)

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SIRAZETDINON, KH. AID P - 555 : USSR/Mining Subject Pub. 78 - 21/29 Card 1/1 : Sirazetdinov, Kh. Author Training and re-training of skilled workers in the : Title Tuymazaneft Periodical : Neft. Khoz., v. 32, #7, 82-85, J1 1954 Critical review of the theoretical and practical education of oil field workers of different cate-Abstract : gories in the Tuymazy and Bashkir regions. NIC (Scientific Research Department of Bashkir Oil Institution : Field) Submitted : No date

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CIA-RDP86-00513R001550820008-2

SOV/124-58-4-3857

Translation from: Referativnyy zhurnal	Mekhanika,	1958,	Nr 4,	p 2	.7 (USSR)
AUTHOR: Sirazetdinov, T.K.					1 . 1

TITLE: Design Calculation of Wings With Curvilinear Axes (Raschet kryl'yev s krivolineynoy os'ya)

PERIODICAL: Tr. Kazansk. aviats. in-ta, 1956, Vol 31, pp 51-64

The article deals with calculations pertaining to the distribution of the circulation along a wing with a high aspect ABSTRACT: ratio and with a curved center line. General formulas are also given for aerodynamic coefficients for the subcritical range of angles of attack. Initially the flow is considered to be incompressible; later, the influence of compressibility for subsonic velocities is taken care of by means of the linear theory. The lift coefficient for any section is considered to be a function of the airfoil shape, the true angle of attack, and the local angle of sweepback of center line. This permits one to tie the section characteristics of a finite-span wing to the characteristics of a infinite span side slipping wing. A unique feature of the calculations is the method of computation of the induced velocities. For their calculations at a section $C_{ard} 1/2$

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SOV/124-58-4-3857

Design Calculation of Wings With Curvilinear Axes

iocated at a distance ζ=z from the plane of symmetry of a wing, where the latter lies on the span segment defined by z - Δ_l < ζ < $z + \Delta_2$, the wing is replaced by a lifting-vortex surface σ having a uniform distribution of vorticity along the chord. The remaining part of the wing span is substituted by a lifting vortex coincident with the center line. The average value of the induced velocity at the section $\zeta = z$ is then calculated on the basis of the lifting-vortex surface and the free vortices shedding therefrom. The induced velocity at the mid-point of the section is calculated on the basis of the lifting and the free vortices of the remaining part of the wing. By this method the author avoids infinitively large values of these velocities for a curved center line. The width of the vortex strip σ , equal to $\Delta_1 + \Delta_2$, is so selected that the kernel of the integral equation for the circulation has a continuous variation along the span. The equation is solved by a method similar to the well-known method of Multhopp. Bibliography: 4 references.

1. Wings--Design 2. Wings--Lift 2. Mathematics G. F. Burago

Card 2/2

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CIA-RDP86-00513R001550820008-2"

2.

SOV/124-58-7-7478

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 22 (USSR)

AUTHOR: Sirazetdinov, T.K.

TITLE: A Finite-span Wing at High Angles of Attack (Krylo konechnogo razmakha na bolshikh uglakh ataki)

PERIODICAL: Tr. Kazansk. aviats. in-ta, 1956, Vol 31, pp 65-83

A method is given for calculating the circulation and certain ABSTRACT: other characteristics of straight and swept-back wings at and beyond the stalling angle of attack. In this connection the results of a previous paper of the author's are utilized (Tr. Kazansk. aviats. in-ta, 1956, Vol 31, pp 51-64; RzhMekh, 1958, Nr 4, abstract 3857) in which he had presented the vortex pattern of a wing, a means for calculating the downwash and the true angles of attack at points on the median line, and an equation for the relationship which reduces the section characteristics of a finite-span wing to those of infinitely long wings operating at an angle of sideslip. In the present case these results are applied to large angles of attack, and a nonlinear integral differential equation is obtained for the circulation. This equation is solved by the method of successive approximations. Card 1/3

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SOV/124-58-7-7478

A Finite-span Wing at High Angles of Attack

It is recommended that the zero-th approximation for the circulation be obtained by regarding the downwash angles as equal to zero. This value for the circulation is then used to obtain the downwash angles in the zero-th approximation. However, the author does not mention and does not allow at all for the fact that at the tips of a finite-chord wing the downwash angles will be infinitely large. To obtain all the successive approximations the basic equation is linearized. Thus, to yield the (n + 1)-th approximation, the effective angles of downwash $\Delta \alpha$ must appear in the form of the summation angles of downwash $\Delta \alpha$ must appear in the n-th approximation and $\delta \alpha$ is a $\Delta \alpha = \Delta \alpha^{(n)} + \delta \alpha$, wherein $\Delta \alpha^{(n)}$ is the n-th approximation and in a linearsmall increment in the downwash angle. Next, the basic equation is linearized with respect to the angle δx and reduces to a form resembling that of the Prandtl equation for a straight lifting line. The convergence of the process of successive approximations is not investigated, but the author maintains that in practice the first approximation alone usually suffices. The entire sequence of the calculation of the circulation at high angles of attack is illustrated on the example of straight wings only. For a single-profile swept-back wing an approximate relationship is evolved which enables one with relative ease to plot the curve of its lift coefficient at all angles of attack if the analogous relationship is known for a straight wing having the Card 2/3

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A Finite-span Wing at High Angles of Attack

same aspect ratio, taper ratio, and Reynolds number. In addition, the problem is considered of calculating the angle of attack at which the phenomenon of autorotation of a wing commences. For this purpose the basic equation for the circulation of a wing rotating uniformly around its own longitudinal axis is linearized, as in the previous case. This makes it possible to isolate the linear equation for the circulation increment produced by the rotation. The effect of this rotation is allowed for, as is customary, by an equivalent spanwise twist in the wing. The angle of attack at the inception of a wing's autorotation is determined by equating to zero the rotating wing's rolling-moment coefficient. Some calculation results are given and are compared with experimental data. Bibliography: 4 references.

Statute att

1. Wings--Aerodynamic characteristics

Card 3/3

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CIA-RDP86-00513R001550820008-2"

2. Wings--Mathematical analysis

sov/147-58-1-6/22 AUTHOR: Sirazetdinov, T.K. TITLE: On the Oscillations of a Wing of Large Aspect Ratio in a Subsonic Airstream (K kolebaniyam kryla bol'shogo udlineniya v dozvukovom potoke) PERIDOCIAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsionnaya Tekhnika, 1958, Nr 1, pp 43 - 52 (USSR). ABSTRACT: The induced downwash can be represented as the sum of three terms. The first gives the quasi-steady downwash of a wing of finite dimensions, the second takes account of the vortex sheet and the third allows for the effect of the wing profile. The integro-differential equation for an oscillating wing of large aspect ratio and low frequency of oscillation is introduced and is approximately solved. The wing is in a subsonic compressible ideal fluid and is moving at constant The wing has small oscillations and deformations whose speed. velocities are small compared with the velocity of motion. In such a motion there is formed behind the wing a plane vortex sheet. In a compressible fluid, the disturbances caused by the vortices are retarded. Hence the velocity potential in the vortex sheet can be obtained from a distribution of dipoles with retarded potentials on some surface. The

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SOV/147-58-1-6/22 On the Uscillations of a Wing of Large Aspect Ratio in a Subsonic Airstream integro-differential equation for the approximate circulation is deduced and it is shown how, by satisfying this at m points, a system of linear algebraic equations can be obtained for the circulation. There are 3 Soviet references. ASSOCIATION: Kafedra vysshey matematiki, Kazanskiy aviatsionnyy institut (Chair of Higher Mathematics, Kazan Aviation Institute)		DR RELEASE: 08/23/2000 CIA-RDP86-00513R001550820008-2
 integro-differential equation for the approximate circulation is deduced and it is shown how, by satisfying this at m points, a system of linear algebraic equations can be obtained for the circulation. There are 3 Soviet references. ASSOCIATION: Kafedra vysshey matematiki, Kazanskiy aviatsionnyy institut (Chair of Higher Mathematics, Kazan) 	On the Uscilla Airstream	SOV/147- 58-1-6/22 tions of a Wing of Large Aspect Ratio in a Subsonic
ASSOCIATION: Kafedra vysshey matematiki, Kazanskiy aviatsionnyy institut (Chair of Higher Mathematics, Kazan	integro deduced	m of linear algebraic equations can be obtained for the tion. There are 3 Soviet references.
		Kafedra vysshey matematiki, Kazanskiy aviatsionnyy institut (Chair of Higher Mathematics, Kazan
SUBMITTED:October 3, 1957Card 2/21. WingsOscillation2. Integral equationsApplication3. Differential equationsApplication		1. WingsOscillation 2. Integral equationsApplication

sov/124-59-10-11495 Translation from: Referativnyy zhurnal, Mekhanika, 1959, No. 10, p. 64 (USSR) Sirazetdinov, T. K. A Finite-Span Wing in an Unsteady Flow AUTHOR : Tr. Kazansk. aviats. in-ta, 1958, Vol. 33-34, pp. 43-58 TITLE: The work treats unsteady motion of a wing of finite span with a curved PERIODICAL: axis in an incompressible liquid) Small oscillations and deformations are superimposed on the fundamental motion with constant velocity. The determination of the circulation distribution along the wing span is considered. The total circulation Γ around the wing cross section is represented as the sum of three components: a) Circulation due to the variation in the angle of incidence in consequence of oscillations and deformations; b) circulation caused by downwash; c) circulation due to the effect of the wake, i. e., of the part of the eddy system caused by unsteady motion. Two latter components are represented as integrals of functions containing Γ and eddy intensity \mathcal{T} . The quantities Γ and are interconnected by a differential equation. Therefore, for determining the Card 1/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550820008-2 sov/124-59-10-11495 A Finite-Span Wing in an Unsteady Flow circulation distribution along the wing span, a system of an integral-differential and a differential equation is obtained. The equations for determining the circulation are reduced to a system of linear algebraic equations in case of harmonic oscillations. M. M. Vasil'yev ち Card 2/2 U:N .

APPROVED FOR RELEASE: 08/23/2000
80802 sov/124-59-9-9880 10,6000 Translation from: Referativnyy zhurnal, Mekhanika, 1959, Nr 9, p 45 (USSR) Sirazetdinov, T.K AUTHORS The Effect of the Nearness of the Earth Surface on the Circulation Distribution Over the Span of a Wing With Curvilinear Axis TITLE: Tr. <u>Kazansk, aviats, in-ta</u>, 1958, Vol 33 - 34, pp 59 - 67 PERIODICAL: The problem of determining the distribution of circulation over a wing with a curvilinear axis is solved under the consideration ABSTRACT: of the effect of the earth surface. The votex system consists of a bound vortex having the form of the mean chord line, and shed vortices. Whirls situated symmetrically in relation to the earth surface, are introduced for considering the effect of the boundary of the stream. The equation of connection is expressed by : $\Gamma = \frac{1}{2} b v_n \cos \chi c_y (\alpha_t).$ (1,1)Herein χ is the sweepback angle, v_n is the projection of the velocity onto a plane perpendicular to the axis of the carrier whirl, α_t is the true angle of incidence. The quantities v_n X Card 1/2

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sov/124-59-9-9880

The Effect of the Nearness of the Earth Surface on the Circulation Distribution Over the Span of a Wing With Curvilinear Axis

and α_t , expressed by \int are inserted into Equation (1.1); an integraldifferential equation is obtained, for the solution of which the author proposes the method of successive approximations. The expression

$$\Gamma^{o} = \frac{b v_{ac}}{2} \cos^2 \chi c_{y} \left(\frac{\alpha}{\cos \chi} \right)$$

is assumed as the zero approximation. Then the angle of downwash of the stream will be equal to $\Delta < 0 = \Delta < -\delta < 0$, where $\Delta < 0$ is the true angle of downwash. The equation for determining the circulation to a first approximation Γ^1 is obtained with an accuracy up to terms of the order $\delta < 0$ the expansion of c_y into series. The solution is reduced to the solution of a system of algebraic equations. In the equations obtained Γ^0 must be replaced by Γ^1 for obtaining the next approximation. The case of linear dependence of c_y on \propto is discussed specially. The formulae for forces and moments are derived.

G.G. Tumashev

Card 2/2

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SIRAZETDINOV, T.K.

Vibrations of a stubby wing in a subsonic flow. Izv.vys.ucheb. zav.; av.tekh. 2 no.3:16-23 '59. (MIRA 12:12)

1. Kazanskiy aviatsionnyy institut. Kafedra aerodinamiki. (Aerodynamics) (Airfoils)

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CIA-RDP86-00513R001550820008-2

s/124/61/000/011/013/046

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Sirazetdinov, T. K. AUTHOR:

wing Streamlining a vibrating in a sub-sonic flow TITLE:

31576

D237/D305

Referativnyy zhurnal, Mekhanika, no. 11, 1961, 24, abstract 11B144 (Tr. Kazansk. aviats. in-ta, 1959, PERIODICAL: 44, 71 - 93)

TEXT: Streamlining a vibrating, thin and slightly bent wing in a subsonic ideal gas flow is considered. The potential of perturbed flow is determined by a lagging potential of a double layer distributed over the wing and its vortex wake. An integro-differential equation is derived for determining the intensity of moments of the dipoles distributed over the wing of arbitrary shape in the plane. An approximate method of solving this equation is given for wings of a small and infinitely small aspect ratio. For a wing of a small aspect ratio, distribution of intensity of the moments of the dipoles q along the chord, is given as a quadratic polynomial i for the wings of a very small aspect ratio, the function of q is assumed constant along the chord. According to the author, the distri-Card 1/2

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EPA(b)/BDS--AEDC/AFFTC/ASD Pd-4-JXT(EX) 8/0147/63/000/002/0011/0021 L 12948-63 2 ACCESSION HR: AP3004716 AUTHOR: Sirazetdinov, T. K. TITLE: Optimal problems of gasdynamics SOURCE: IVUZ. Aviats. tekhnika, no. 2, 1963, 11-21 TOPIC TAGS: Optimum body shape, boundary layer, hypersonic flow, minimum drag, heat dissipation, variational method, viscous flow ABSTRACT: Study of problems of optimum body shape in supersonic and hypersonic viscous gas flow has led to the derivation of a system of differential equations for determining the optimum shape for minimum drag and for maximum heat-dissipating capability by the variational method. The gas flow considered satisfies the Navier-Stokes equations of continuity, energy, and state. The amount of heat absorbed by the body surface in a unit of time is given in the form of the surface integral $Q = \int_{\sigma} \int [X_0 \cos(n, x) + Y_0 \cos(n, y) + Z_0 \cos(n, z)] d\sigma.$ Card 1/2

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CCESSION NR: AP4035071 S/0103/64/025/004/0463/0472	
UTHOR: Sirazetdinov, T. K. (Kasan')	•
TITLE: Theory of optimum processes with distributed parameters	
SOURCE: Avtomatika i telemekhanika, v. 25, no. 4, 1964, 463-472	•
TOPIC TAGS: optimum process, distributed parameter optimum process, topic tags: optimum process, distributed parameter optimum paramete	•
ABSTRACT: The principle of maximum is established as a necessary condition of optimality of controlled processes which can be described by quasi-linear of optimality of controlled processes which can be described. In the case of a partial differential equations with many independent variables. In the case of a	
process described by α - $\sum_{n=1}^{\infty} (t, z_1, z_2)$, the principle of maximum is	
such as this: $\int \frac{\partial v}{\partial t} = c_0(t, z_i)v + \sum_{k=1}^{k} c_k(t, z_i)v_{z_k} + v(t, z_i)v_{z_k}$ also a sufficient condition. Control of the heating of a thin sheet material	-
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conveyed th 2 figures ar	rough a fu nd 70 form	irnace i ulas,	is considered as an example.	Orig. art. has:	
ASSOCIATI	ON: none				
SUBMITTE	D: 13Apr(3	DATE ACQ: 26 May64	ENCL: 00	
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ESD(t)/IJP(c)/ESD(dp)/AFWL/ASD(f)-2 S/0010/64/028/006/0977/0986 Pg-4 EWT(d) 16682-65 ACCESSION NR: AP5000268 B AUTHOR: Sirazetdinov, T. K. (Kazan) Stability of random processes with distributed parametere SOURCE: Prikladnaya matematika i mekhanika, v. 28, no. 6, 1964, 977-986 TITLE: TOPIC TAGS: random process, stability, partial differential equation, probability ABSTRACT: The author studies probabilistic stability of random processes described by partial differential equations. He proves theorems on probabilistic stability analogous to those of Lyapunov's second method; in particular: Theorem 1. For probabilistic stability in the metrics ρ and ρ_0 of the process $\phi \equiv 0$ it is sufficient that there exist a function v = v[9, u, t] which is positive definite in the metric ρ and continuous in the metric ρ_0 for $t = t_0$ and that the mathematical expectation $M_t [v]$ of this functional v in view of the system $\frac{\partial \varphi_1}{\partial t} = f_1\left(t, x, y, z, \varphi_0, \frac{\partial \varphi_s}{\partial x}, \frac{\partial \varphi_s}{\partial y}, \frac{\partial \varphi_s}{\partial z}, \frac{\partial^3 \varphi_0}{\partial x^3}, \dots, \frac{\partial^2 \varphi_s}{\partial z^3}, u_1, \dots, u_s\right)$ (1)Card 1/3

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be nonincreasing in time t. Theorem 2 gives conditions for probabilistic asymptotic stability in the metrics ρ and ρ_0 of the process $9 \equiv 0$. The author then considers random processes which are homogeneous Markov processes. Theorem 3, giving sufficient conditions for probabilistic stability, is a corollary of Theorem 1 when u is a Markov process. Several examples are treated: a probability process described by

$$\frac{\partial \varphi}{\partial t} = a(x, u) \frac{\partial \varphi}{\partial x} + b(x, u) \varphi \qquad (2)$$

and

 $\frac{\partial \varphi}{\partial t} = a(x, u) \frac{\partial^2 \varphi}{\partial x^2} + b(x, u) \frac{\partial \varphi}{\partial x} + c(x, u) \varphi ; \qquad (3)$

the equation

$$\frac{\partial\omega}{\partial t} = v \left(\frac{\partial^2 \omega}{\partial x^4} + \frac{\partial^2 \omega}{\partial y^3} \right) - v_0 \frac{\partial\omega}{\partial x} , \quad \left(\omega = \frac{1}{2} \left(\frac{\partial v_1}{\partial x} - \frac{\partial v_1}{\partial y} \right) = -\frac{1}{2} \left(\frac{\partial^2 \psi}{\partial x^4} + \frac{\partial^2 \psi}{\partial y^3} \right) \right) \quad (4)$$

describing plane perturbed motion of a fluid, where the velocity profile of the basic motion is rectilinear; and, finally, the differential equations of perturbations of plane-parallel isothermal motion of a gas with basic velocity v_0 independent of the x and y coordinates. Orig. art. has: 24 formulas.

ASSOCIATION: none

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ACC NR: AP5020634 SOURCE CODE: UR/0147/65/000/003/0	038/0045
AUTHOR: Sirazetdinov, T. K	49
ORG: None	
TITLE: Optimal control of stochastic processes with distributed parameters	1
SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 3, 1965, 38-45	1
TOPIC TAGS: stochastic process, partial differential equation, differential equation,	mation gratom
optimal control	dramon platom
optimal control ABSTRACT: The author presents a solution to the problem of the synthesis o and stability of stochastic processes which are defined by a system of different with partial derivatives. A generalization of the Bellman-Krasovskiy equation skiy, E. M. Lidskiy. Analiticheskoye konstruirovaniye regulyatorov v sistem nymi svoystvami I, II, III. "Avtomatika i telemekhanika," Nos. 9-11, 1961) following equation system is investigated:	f optimal control ntial equations n (N. N. Krasov-
ABSTRACT: The author presents a solution to the problem of the synthesis of and stability of stochastic processes which are defined by a system of different with partial derivatives. A generalization of the Bellman-Krasovskiy equation skiy, E. M. Lidskiy. Analiticheskoye konstruirovaniye regulyatorov v sistem nymi svoystvami I, II, III. "Avtomatika i telemekhanika," Nos. 9-11, 1961) following equation system is investigated:	f optimal control ntial equations n (N. N. Krasov- nakh so sluchay- is presented. The
ABSTRACT: The author presents a solution to the problem of the synthesis of and stability of stochastic processes which are defined by a system of different with partial derivatives. A generalization of the Bellman-Krasovskiy equation skiy, E. M. Lidskiy. Analiticheskoye konstruirovaniye regulyatorov v sistem nymi svoystvami I, II, III. "Avtomatika i telemekhanika " Nos. 9-11, 1961).	f optimal control ntial equations n (N. N. Krasov- nakh so sluchay- is presented. The

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4 L 6427-66 $\varphi_{xx} \equiv \left(\frac{\partial^2 \varphi^1}{\partial x_1^2}, \frac{\partial^2 \varphi^1}{\partial x_1 \partial x_2}, \dots, \frac{\partial^2 \varphi^n}{\partial x_m^2}\right)$ ACC NR: AP5020634 \$ x_1, x_2, \ldots, x_m are coordinates of points in the region τ , where the process occurs; $Q^{i} = Q^{i}(x, t)$ are functions characterizing the state of the process (t is time); $u^{r} = u^{r}(x, t)$ are the control functions. The calculations are presented in detail. Orig. art. has: 33 formulas. SUB CODE: MA, IE / SUBM DATE: 18Sep64 / ORIG REF: 003 .2011.17 nw Card 2/2

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L 2641-66 ACCESSION NR: AP5023109 the process transpires; $\varphi^{i} = \varphi^{i}(x, y)$ the state of the process; $w = w^{i}(x, y)$ solutions of (1.1) are found in the differentiable with respect to the with respect to $x_{1}, x_{2}, \dots, x_{n}$ coor			
ASSOCIATION: none	Encl: 00	SUB CODE:	18
SUBMITTED: 18May64	OTHER: 002		
NO REF SOV: 007			
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ACC NR: AT6007334 AUTHOR: <u>Sirazetdinov, T. K.</u> ORG: <u>Kazan Aviation Institute</u> (Kazanskiy aviatsionnyy institut) C TITLE: L. S. Pontryagin's maximum principle in the theory of <u>linear optimal processes</u> with distributed parameters SOURCE: Kazan. Aviatsionnyy institut. Trudy, no. 80, 1963. Matematika i mekhanika (Mathematics and mechanics), 51-63 TOPIC TAGS: optimal control, parameter, integral equation, ordinary differential equation, functional operator, linear differential equation, variational problem, partial derivative, heat conductivity ABSTRACT: This paper examines processes which can be described by a system of linear differential equations with partial derivatives. L. S. Pontryagin's maximum principle is established as a necessary and sufficient condition of optimalness. A process which ooccurs in time and space and is described by a system of the form $\frac{\partial V'}{\partial t} = f'_0(t, x_1, \dots, x_n) V_{x_n}^* + \frac{1}{k_1 \cdot k_1 \cdot k_1 \cdot k_2 \cdot k_2 \cdot k_2 \cdot k_2 \cdot k_2 \cdot k_3 \cdot k_4 \cdot k_4$	L 25450-66 EWT		SOURCE CODE	: UR/2529/63/000/080	/0051/0063
ORG: <u>Kazan Aviation Institute</u> (Kazanskiy aviatsionnyy institut) TITLE: L. S. Pontryagin's maximum principle in the theory of <u>linear optimal processes</u> with distributed parameters SOURCE: Kazan. Aviatsionnyy institut. Trudy, no. 80, 1963. Matematika i mekhanika (Mathematics and mechanics), 51-63 TOPIC TAGS: optimal control, parameter, integral equation, ordinary differential equation, functional operator, linear differential equation, variational problem, partial derivative, heat conductivity ABSTRACT: This paper examines processes which can be described by a system of linear differential equations with partial derivatives. L. S. Pontryagin's maximum principle is established as a necessary and sufficient condition of optimalness. A process which occurs in time and space and is described by a system of the form $\frac{\partial V^i}{\partial t} = f^i (i=1,, n),$ where $f^i = f^i_0(t, x_i,, x_0) + \sum_{k_i s} f^i_{k_i}(t, x_i,, x_n) V^*_{k_i} + \dots$					42
TITLE: L. S. Pontryagin's maximum principle in the theory of <u>intext optimal</u> with distributed parameters SOURCE: Kazan. Aviatsionnyy institut. Trudy, no. 80, 1963. Matematika i mekhanika (Mathematics and mechanics), 51-63 TOPIC TAGS: optimal control, parameter, integral equation, ordinary differential equation, functional operator, linear differential equation, variational problem, partial derivative, heat conductivity ABSTRACT: This paper examines processes which can be described by a system of linear differential equations with partial derivatives. L. S. Pontryagin's maximum principle is established as a necessary and sufficient condition of optimalness. A process which concurs in time and space and is described by a system of the form $\frac{\partial V^{i}}{\partial t} = f^{i} (i=1,, n),$ where $f^{i} = f_{0}^{i}(t, x_{1},, x_{q}) + \sum_{k_{1}, k_{2}} f_{k_{2}}^{i}(t, x_{1},, x_{n}) V_{k_{2}}^{k}$		Lion Institute (Kaz	anskiy aviatsionnyy	institut)	11
with distributed parameters SOURCE: Kazan. Aviatsionnyy institut. Trudy, no. 80, 1963. Matematika i mekhanika (Mathematics and mechanics), 51-63 TOPIC TAGS: optimal control, parameter, integral equation, ordinary differential equation, functional operator, linear differential equation, variational problem, partial derivative, heat conductivity ABSTRACT: This paper examines processes which can be described by a system of linear differential equations with partial derivatives. L. S. Pontryagin's maximum principle is established as a necessary and sufficient condition of optimalness. A process which coccurs in time and space and is described by a system of the form $\frac{\partial V'}{\partial t} = f^1 (i=1,, n),$ where $f^1 = f_0^1(t, x_1,, x_0) + \sum_{k_1, k_2} f_{k_2}^1(t, x_1,, x_n) V_{x_2}^k$	minite. L. S. Po	ntryagin's maximum	principle in the the	ory of linear optimal	processes
(Mathematics and mechanics), for the form the equation of the form $f_{i} = f_{0}^{i}(t, x_{1}, \dots, x_{q}) + \sum_{k,s}^{l} f_{ks}^{i}(t, x_{1}, \dots, x_{n}) V_{ks}^{k}$. The equation of the form for the fo	with distributed	parameters	nt. Trudy, no. 80,	1963. Matematika i mel	<i>chanika</i>
equation, functional operator, partial derivative, heat conductivity ABSTRACT: This paper examines processes which can be described by a system of linear differential equations with partial derivatives. L. S. Pontryagin's maximum principle is established as a necessary and sufficient condition of optimalness. A process which oocurs in time and space and is described by a system of the form $\frac{\partial V^{i}}{\partial t} = f^{i} (i=1,, n),$ where $f^{i} = f^{i}_{0}(t, x_{1},, x_{q}) + \sum_{k,s} f^{i}_{ks}(t, x_{1},, x_{n}) V^{k}_{ss} + \dots$	(Mathematics and		_	tion ordinary differ	ential
ABSTRACT: This paper examines processes which can be described by a system of finite differential equations with partial derivatives. L. S. Pontryagin's maximum principle is established as a necessary and sufficient condition of optimalness. A process which occurs in time and space and is described by a system of the form $\frac{\partial V^{i}}{\partial t} = f^{i} (i = 1,, n),$ where $f^{i} = f^{i}_{0}(t, x_{1},, x_{q}) + \sum_{k,s} f^{i}_{ks}(t, x_{1},, x_{n}) V^{k}_{ss} + \dots$	equation, funct	ing heat conductiv	ity		
is established as a necessary which occurs in time and space and is described by a system of the form $\frac{\partial V^{i}}{\partial t} = f^{i} \ (i = 1,, n),$ where $f^{i} = f^{i}_{0} (t, x_{1},, x_{q}) + \sum_{k, s} f^{i}_{ks} (t, x_{1},, x_{n}) V^{k}_{x_{s}} + \dots$	ABSTRACT: This	paper examines pro uations with partia	cesses which can be l derivatives. L. S		of linear m principle process
where $f^{l} = f^{l}_{0}(t, x_{1}, \dots, x_{q}) + \sum_{k, s} f^{l}_{ks}(t, x_{1}, \dots, x_{n}) V^{k}_{x_{s}} + \frac{1}{k_{s}}$	is established which occurs in	a necessary and	is described by a s	ystem of the form	
	where	• •		$(x_n) V_{x_s}^k + \cdots$	2
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	had 57 fo	rmilas.		h fe war and a		· · · · · · · · · · · · · · · · · · ·				
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	4 e coordinates of a point T , where time; v_1 and v_2 are the velocity of e components of the unperturbed mo- ent of the time t; p is the press	A the DATTURDOU
assumed independ motion; ✓ is th Kronecker symbol The system of di	ent of the time t; p is the provident of the time t; p is the provident of the kinematic vi of the density of the liquid is a ifferential equations derived on t ation of variables and partial int	scosity; 5 i is a ssumed to be unity. he above basis is egration. Orig. art.
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ACC NRI AP6025	F(d)/FBD/FSS-2/EEC(k)-2/EWP(v)/EU 406 AST/BC SOURCE CODE: UR/	/0103/66/040/007/0005/0019	
	etdinov, T. K. (Kazan')	18 18	-
ORG: none			
TITLE: On opt	imum <u>control of elastic fligh</u>	nt vehicles	
SOURCE: Avtom	atika i telemekhanika, no. 7,	1966, 5-19	
TOPIC TAGS: og vehicle	ptimum control, flight vehicl	le control, elastic flight	
elastic, fligh given trajector flight velocit; trated. The b a beam of a va weight, and ac equation. To control problem mean-square de vehicle axis f	problem of controlling the m t vehicle in such a way that ry is minimum is analyzed und y is constant and that the co ehavior of the axis of a flig riable cross section) under t rodynamic forces is described solve the formulated problem m of systems with distributed viation of the form and of th rom the programmed values is functional which the control	the deviation from the der the assumptions that the ontrolling force is concen- ght vehicle (considered as the action of elasticity, d by a partial differential the theory of the optimum d parameters is applied. Th he velocities of the flight- taken as the performance	e



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ACC NR: AP6036851		SOURCE CODE:	UR/0147/66/000/004/0023/0	0028
AUTHOR: Sirazetdinov,	T. K.			
RG: none				
TTLE: Optimal stabili	zation of the Cou	ette flow		
OURCE: IVUZ. Aviatsi	onnaya tekhnika,	no. 4, 1966, 23-2	8	
COPIC TAGS: plasma dyn Couette flow	amics, plasma flo	w, plasma stabili	ty, magnetohydrodynamics,	•
a anatidamad One wal	1 moves with the atween the walls	velocity v _c relat is h. the flow ve	rge between two parallel w ive to the other wall which locity is v_x , $v_y = 0$. The tion of the current induce	
it rest; the distance b agnetic field B is alo b in the fluid is negli	ng the y axis. I gibly small. The	he magnetic induc	is	ad by
it rest; the distance b agnetic field B is alo b in the fluid is negli	ng the vaxis. 1	he magnetic induc	(1)	ad by
It rest; the distance b agnetic field B is alo b in the fluid is negli $\frac{\partial v_x}{\partial t_0}$ (v_1)	ng the y axis. The gibly small. The $\sqrt{\frac{\partial^2 v_x}{\partial y_0^2}} - \frac{a}{p} v_x B^2,$ $a = 0, (v_r)_{r=0} = 7$	he magnetic induc equation of flow	(1)	
It rest; the distance b agnetic field B is alo b in the fluid is negli $\frac{\partial v_x}{\partial t_0}$ (v_1)	ng the y axis. The gibly small. The $\sqrt{\frac{\partial^2 v_x}{\partial y_0^2}} - \frac{a}{p} v_x B^2,$ $a = 0, (v_r)_{r=0} = 7$	he magnetic induc equation of flow e^{2}	(1) y, t _o - time. The station	

where R _h This must functional	be done by l into which trated in t	tmann numb y regulati ch B enter the region	ng B. The p s. The solu	oblem is to m problem is so ition indicat Clow velocity	lved by ext as that the	remizing a	certain
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SIRAZETDINOV, V.G.

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Traumatism in lumbermen; based on materials of the Kananikol'skoye logging camp for five years. Ortop., travm. i protez. 26 no.1:71-73 Ja '65.

l. Iz Kananikol'skoy uchastkovoy bol'nitsy Zilairskogo rayona Bashkirskoy ASSR. Adres avtora: Bashkirskaya ASSR, Zilairskiy rayon, Kananikol'skaya uchastkovaya bol'nitsa.

SIRAZETDINOV, V.G.

Intracutaneous skin tests in the determination of sensitization to penicillin. Antibiotiki 9 no.4:372-374 Ap '64.

(MIR/ 19:1)

l. Kananikol'skaya uchastkovaya bol'nitsa Khaybullinskogo rayona Pashkirskoy ASSR i kafedra mikrobiologii Bashkirskogo meditsinskogo instituta, Ufa.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550820008-2 TOROPOV, N.A.; SIRAZHIDDINOV, N.A. System MgAl₂O₄ ~ LaAlO₃. Zhur. neorg. khim. 9 no.5:1300-1302 My '64. (MIRA 17:9) **1** ٠ A. News







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2.



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STRAZHON V, S. ZH	The problem of investigating the limit distributions of sums of chance quantities "connected in a chain" is equiv to studying the limit distri- butions of a certain homogeneous chance quantity $Z_n = m_n h$. Submitted by Acad A. N. Kolmogorov 22 Apr 52.	Acad Sci USSR "Dok Ak Nauk SSSR" With a finite numb also considers th after one step fr tial probabilites as given. Design state eg after th	USSR/Mathem
		Protection and the second second	

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SIRAZHDINO	y, S. Kh.	
USSR/Mathemat:	ics - Markov's series	
Card 1/1 :	Pub. 22 - 6/44	
Authors :	Sirazhdinov, S. Kh.	
Title :	Limiting theorems for Markov's homogeneous series (chains) with continuous time	
Periodical :	Dok. AN SSSR 98/6, 905-908, October 21, 1954	
Abstract :	Lemmas and limiting theorems dealing with Markov's homogeneous series are presented for the purpose of finding a more refined expression for mathe- matical expectation of probability of some incidental events at conformanc of certain conditions $[(A) \& (H)]$ provided the time is continuous. The symbols are explained. Six references (1938-1953).	e
Institution :	The state of the Acad, of Scs. of the USSR	
Presented by:	Academician A. N. Kolmogorov, June 2, 1954	

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Tira 24d inov S. Kh. 1-F\W Cuparanunos, C. X. [Siraždinov, S. H.] Предельные review and a second se transition probabilities and states c1, c2, ..., cr, the time being either discrete or continuous. Introduction: Summary of previous work on the asymptotic behaviour of Markov chains; enunciation of the author's principal results, mostly local limit theorems giving asymptotic expansions for the distribution of the vector whose ath component is the total time spent in state e_{α} during an interval (0, t). Chapter I: The characteristic matrix. Lemmas on the latent roots of this matrix. (For discrete time the matrix is simply $(p_{\alpha\beta} \exp i\theta_{\alpha}), \alpha, \beta = 1, 2, \dots, s$, ous] case. Theorem I generalizes a local limit theorem dua to Kolmogorov [Izv. Akad. Nauk SSSR. Ser. Mat. 13 (1949), 281-300; MR 11, 119]. Most of the theorems 1/2 i

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SIRAZHDINOV, S. Kh. Siraždinov, S. H. A simple statistical acceptance control Akad. Nauk Uzbek. SSP. Trudy Inst. Mat. Meh. 15 (1955), 41-55. (Russian) The author derives an acceptance sampling plan and gives formulae (without derivations) and tables for ob-taining unbiassed estimates for the number of defective articles accented. The case of destructive as well as non-Nail taining unbiassed estimates for the number of defective articles accepted. The case of destructive as well as non-destructive test (with replacement of items found defec-tive) is considered. The work is based on a paper by A Kolmogorov [Izv. Akad. Nauk SSSR. Ser. Mat. 14 (1950), 303-326; MR 12, 116; 15, 452]. E. Lukacs. Sau in p

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550820008-2 14 N-1 (1 - 1 - 1 - 1 - 1 1. SEVAST 'YANOV, B.A.; SIRAZHDINOV, S.Kh. Mathematial statistics and industrial production control. Priroda (MIRA 8:10) 44 no.8:28-34 Ag '55. (Production control) A PERSONAL PROPERTY OF



1. 200 SIRAZHDINOV, S.Kh. Betimations with minimum bias for a binomial distribution [with summary in English]. Teor.veroiat.i ee prim. no.1: (MLRA 9:12) 168-174 '56. 1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Distribution (Probability theory))

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88891 57 13. 441 16.6200 AUTHOR: S/044/60/000/007/047/058 Siradzbinov, S.Kh. C111/0222 TITLE: Unbiased estimates of the amount of the transmitted refuse for the method of the single sample PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 188. Abstract no.8077. Tr.In-ta matem. i mekhan.AN Uz SSR, 1957, TEXT: The author considers the statistic acceptance inspection according to the qualitative mark with the application of a single sample with the volume n. If the number of the defect products in the sample is not greater than c then the remaining products are accepted Without any control, in the other case they either are controlled X completely (scheme A) or refused finally (scheme B). The article is a compretery (scheme A) or refused finally (scheme D). The article in development of an idea of A.N.Kolmogorov on the utilization of the mount of the transmit results of control for the estimation of the amount of the transmitted results of control for the estimation of the amount of the transmitted refuse (Izv.AN SSSR.Ser.matem., 1950, 14, 303-326) and a generalization of the results of the author. Let q be the amount of defect products of the results of the author. Beild the the amount of derect products in the accepted consignment. Basing on the asymptotic formula for the operative characteristic proposed by A.N.Kolmogorov (Uspekhi matem.nauk, Card 1/3

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 $\begin{array}{c} 88891\\ \hline \\ S/044/60/000/007/047/058\\ C111/C222\\ \hline \\ 1951, 6, no.3, 133-134) \ the author obtains the unbiased estimates of the magnitude q for the schemes A and B if <math>N \rightarrow \infty$. In the case of the scheme A the unbiased estimate $\varphi(Y)$ for q for the statement of Y defect products is given by the expression: $\begin{array}{c} \varphi'(Y) = \begin{cases} \frac{X}{n}(1-\lambda) & \text{if } Y \leq c \\ \frac{1}{n} R_{c}(\lambda, b) & \text{if } Y > c. \end{cases}$ Here x and X are the sets of defect products in the sample of volume n and in the whole consignment of volume N, $\begin{array}{c} \lambda = \lim_{N \to \infty} \frac{n}{N}; \quad b = \frac{nX}{N}; \quad R_{c}(\lambda, b) = \frac{K_{c+1}(\lambda, b)}{1-L_{c}(\lambda, b)}(1-\lambda), \text{ where} \\ K_{m}(\lambda, b) = C_{M}^{m} \lambda^{m}(1-\lambda)^{M-m}, \quad M = \frac{b}{\lambda}; \quad L_{c}(\lambda, b) = \sum_{m=0}^{c} K_{m}(\lambda, b). \end{cases}$ In the case of the scheme B the unbiased estimate $\varphi'(x)$ of the magnitude q with respect to x is given by the formula Card $2/3 \end{array}$

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CIA-RDP86-00513R001550820008-2

58 88891 S/044/60/000/007/047/058 C111/C222 Unbiased estimates of the amount... $\varphi^{\dagger}(\mathbf{x}) = \begin{cases} \frac{\mathbf{x}}{n} & \text{if } \mathbf{x} \in c+1 \\ 0 & \text{if } \mathbf{x} > c+1 \end{cases}$ For a sufficiently large number of controlled consignments one may assume: for the scheme A: $q_{mean}^{*} \sim \varphi_{mean}^{*}; q_{mean} \sim \varphi_{mean}$ assume: for the scheme B: $q_{mean}^{**} = \frac{\Sigma(N-n)q^*}{\Sigma(N-n)} \sim \varphi_{mean}^*$; the author gives a probable estimation of the exactness of these X approximate relations. The author points out that it would be necessary to tabulate the function $R_c(\lambda,b)$. [Abstracter's note: The above text is a full translation of the original Soviet abstract.] Card 3/3

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RE B



SIRAZHDINOV, S.Kh.; KAGAN, A.M. H. Cramer's condition. Dokl.AN Uz.SSR no.12:5-7 '58. (MIRA 12:1) 1. Chlen-korrespondent AN UzSSR (for Sirazhdinov). 2. Institut matematiki i mekhaniki im. V.I.Romanovskogo AN UzSSR 1 Sredneaziatskiy gosudarstvennyy universitet im. V.I.Lenina. (Hathomatical statistics)

APPROVED FOR RELEASE: 08/23/2000

ROMANOVSKIY, V.I.; SIRAZHDINOV, S.Kh., otv.red. Prinimal uchastiye: GENDLKR, M.G., red.. GAYSINSKAYA, I.G., red.izd-va; BARTSEVA, V.P., tekhn.red.

> [Selected works] Izbrannye trudy. Izd.2. Tashkent, Izd-vo Akad.nauk Uzbekskoi SSR. Vol.1. [Instroduction to analysis] Vvedenie v analiz. 1959. 501 p. (MIRA 12:10)

1. Chlen-korrespondent AN UzSSR (for Sirazhdinov). (Mathematics)

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SIRAZHDINOV, S.Kh.

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Additive problem with an increasing number of added numbers. (MIRA 12:4) Dok1 AN Uz. SSR no.1:5-7 '59.

imeni V.I.Romanovskogo AN UzSSR. (Probabilities)

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1. Chlen-korrespondent AN UzSSR. Institut matematiki i mekhaniki (Mumbers, Theory of)

APPROVED FOR RELEASE: 08/23/2000

SIRADZHINOV, S. Kh. On the local limit theorem. Dokl. AN UzSSR no.2:5-6 '59. (MIRA 12:4) 1. Ingtitut matematiki i mekhaniki im. V.I. Romanovskogo AN UzSSR. Chlen-korrespondent AN UzSSR. (Limit theorems (Probability theory))

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16(1),16(2)
AUTHOR: Sirazhdinov, S.Kh. SOV/52-4-2-11/13
TITLE: On Exact Estimation in a Local Limit Theorem
PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1959, Vol 4, Nr 2,
pp 229-233 (USSR)
ABSTRACT: Let
$$\xi_1, \xi_2, \xi_3, \dots$$
 be a sequence of independent random variables
which are distributed equally and have the density of probability
 $p(x)$. Let $p_n(x)$ denote the density of probability of
 $\left[\xi_{1+} + \xi_{2+} \dots + \xi_{n}\right]/\sqrt{n}$ and let $\Psi(x) = \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}}$. Let there exist
 $\alpha_3 = \int_{-\infty}^{\infty} x^3 p(x) dx$. For an $n_0 \ge 1$ let $p_{n_0}(x) \in L_{\alpha}(-\infty, \infty)$, where
 $1 < \alpha \le 2$. Then for every $p \ge 1$ it holds:
 $c_n^{(p)} \equiv \int_{-\infty}^{\infty} |p_n(x) - \Psi(x)|^p dx = \lambda_p \left(\frac{|\alpha_3|}{\sqrt{n}}\right)^p + O\left(\frac{1}{n^{p/2}}\right)$,
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On Exact Es	stimation in a Local Limit Theo	orem SOV/52-4-2-11/13
	where $\lambda_{p} = \frac{1}{6^{p} (\sqrt{2\pi})^{p}} \int_{-\infty}^{\infty} 3x - x^{3} $	
	The proof bases on four lemma Prokhorov. There are 5 references, 3 of 1 Swedish.	s. The author mentions Yu.V. which are Soviet, 1 English, and
ASSOCIATION	I:IMM AN Uz.SSR imeni V.I. R oman Mathematics and Mechanics AS Tashkent)	ovskogo, Tashkent (Institute of Uz.SSR imeni V.I.Romanovskiy,
SUBMITTED:	December 20, 1959	
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S/044/62/000/010/017/042 B166/B102

AUTHORS: Sirazhdinov, S. Kh., Eydel'nant, M. I.

TITLE: Contribution to the problem of estimates of product quality from the results of sampling

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1962, 17, abstract 10V85 (Tr. In-ta matem. AN UZSSR, no. 22, 1961, 135 - 145)

TEXT: There are S batches of articles with known sizes N_i and with an unknown number D_i of defective articles among them. From each batch random samples of size n_i including a number d_i of defective articles are taken. A decisive rule is applied: (1) if $d_i \ge c'$, then all articles which did not fall into the sample are rejected without checking; (2) if $c < d_i < c'$ $a \le 100\%$ check is made; (3) if $d_i \le c$ all articles which did not fall into the sample are accepted without checking. Let N'(D') be the number of articles (defective articles) rejected without checking, N"(D") the number of Card 1/2

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Contribution to the problem...

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checked articles (defective articles), N"'(D"') the number of articles (defective articles) accepted without checking. N = N' + N" + N"', D = D' + D" + D"'. Unbiased estimates are given in the article for quantities D, D' and D"'. Estimates are considerably simplified if a check is made on one more (n + 1)-th randomly selected article. Unlike in other papers (RZhMat, 1956, 3999; 1958, 2245; 1960, 8077) the formulas obtained in this paper are valid with any $q = \frac{D}{N}$ and $\lambda = \frac{n}{N}$. [Abstracter's note: Complete translation.]

Card 2/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550820008-2 39402 s/044/62/000/006/072/127 B168/B112 16.6200 Sirazhdinov, S. Kh. AUTHOR: Selection of the most economical scheme for statistical TITLE: intake control Referativnyy zhurnal. Matematika, no. 6, 1962, 17, abstract 6V89 (Tr. Tashkentsk. un-ta, no. 189, 1961, 79-88) PERIODICAL: TEXT: The author formulates the problem of selecting the most economical ... scheme from all possible multiple schemes for statistical intake control (i.e. schemes of consecutive type with varying selection volume at each stage), assuming the distribution of the number x of defective units in the batch of volume N to be a mixed binomial $Q(M) = P(x = M) = \sum_{i=1}^{S} \alpha_i c_N^{MM} (1 - p_i)^{N} - M,$ 25 $\sum_{i=1}^{B} \alpha_{i} = 1, \ \alpha_{i} > 0 \text{ and } 0 \leq p_{i} \leq 1.$ 30 Card 1/2

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"On strong convergence of the distributions of sums of independent terms"

report submitted at the Intl Conf of Mathematics, Stockholm, Sweden, 15-22 Aug 62

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SIRAZHDINOV, S.Kh.; MAMATOV, M.

Convergence in the mean for densities. Teor. veroiat. i ee prim. 7 no.4:433-437 '62. (MIRA 15:11)

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1. Tashkentskiy gosudarstvennyy universitet imeni Lenina. (Convergence) (Probabilities)

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MAPPROVED FOR RELEASE: 08/23/200 CLA-RDP86-00513R001550820008-2 ANTONOVSKITY, M.Ya.; EOLTYANSKIY, V.G.; SARIMSOKOV, T.A.; SIRAZHDINOV, S.Kh., otv. red.; SOKOLOVA, A.A., red.; GOR'KOVAYA, Z.P., tekhn. red. [Topological Boolean algebras] Topologicheskie algebry Bulia. Tashkent, Izd-vo AN UzbSSR, 1963. 132 p. (Topologicheskie polupolia, no.1) (MIRA 17:4) 1. Chlen-korrespondent AN Uzb.SSR (for Sirazhdinov).

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SIRAZHDINOV, S.Kh., otv. red.; SOKOLOVA, A.A., red.; KARABAYEVA, Kh.U., tekhn. red.

> [Limit theorems in the theory of probability] Predel'nye teoremy teorii vergiatnostei. Tashkent, Izd-vo AN UzbSSR, 1963. 163 p. (MIRA 17:3)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut matematiki. 2. Chlen-korrespondent AN UZSSR (for Sirazhdinov)

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S. 19

MATVIYEVSKAYA, G.P.; SIRAZHDINOV, S.Kh. "Treatises" [translated from the Arabic] by Omar Khayyam. Reviewed by G.P.Matvievskaia, S.Kh.Sirazhdinov. Usp. mat. nauk 18 no.6: 245-248 '63. (MIRA 17:3)

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