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JPRS 6825

PE - China

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SPI-2 Indicator Instrument for Loss of Insula-
tion Resistance in Cables, by A. B. Pugach, I. A.
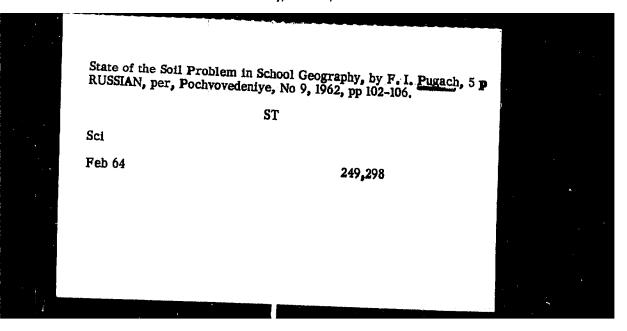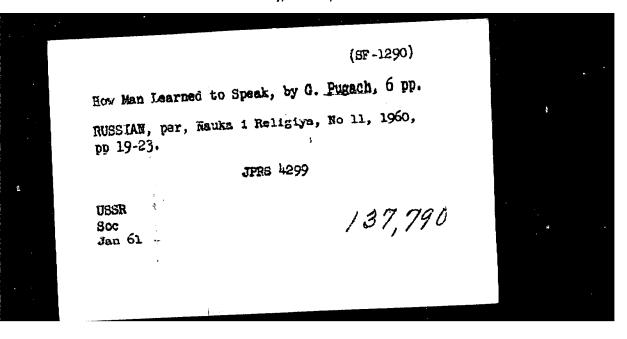Parikozhka, 4 pp.

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Network of Computer Centers, by V. Pugachev, 12 pp.
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Encl to IR-265-55.   CIA D 208987.

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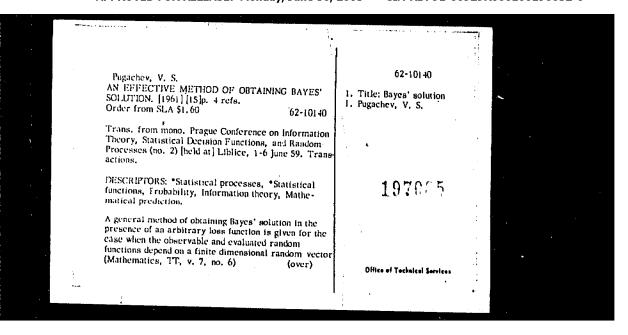RUSSIAN, per, Vest Voz Flota, No 11, 1959, pp 30-33.
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Military   *120,518*

Jul 60

Pugachev, V. S.
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SOLUTION. [1961] [15]p. 4 refs.
Order from SLA $1.60   62-10140

Trans. from mono. Prague Conference on Information
Theory, Statistical Decision Functions, and Random
Processes (no. 2) [held at] Liblice, 1-6 June 59. Trans-
actions.

DESCRIPTORS: *Statistical processes, *Statistical
functions, Probability, Information theory, Mathe-
matical prediction.

A general method of obtaining Bayes' solution in the
presence of an arbitrary loss function is given for the
case when the observable and evaluated random
functions depend on a finite dimensional random vector
(Mathematics, TT, v. 7, no. 6)   (over)

62-10140

1. Title: Bayes' solution
1. Pugachev, V. S.

197065

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Pugachev, V. S.
A METHOD OF DETERMINATION OF THE OPTI-
MUM SYSTEM FROM THE GENERAL BAYES CRITE-
RION (Metod Opredeleniya Optimul'noi Sistemy po
Obshchemu Biesovu Kriteriyu). [1961] [23]p. (equations
omitted) 12 refs. [DSIR LLU] M. 3128.
Order from OTS or SLA $2.60   61-27534

Trans. of Akad[emiya] Nauk SSSR. O[tdelenie]
T[ekhnicheskikh] Nauk. Izvest[iya]: Energetika i
Avtomatika, 1960, no. 2, p. 83-97. *9099 737*

DESCRIPTORS: *Signals, Detection, Reproduction,
Noise, Statistical processes, *Probability, *Control
systems.

A method is described for determining the optimum
system from the general Bayes criterion in the case
when the input observed function and the signal being
(Engineering--Electronic, TT, v. 6, no. 10)   (over)

`61-27534

1. Title: Bayes criterion
I. Pugachev, V. S.
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(NY-6502)

Application of the Theory of Markoff Processes
to the Analysis of the Accuracy of Automatic
Systems, by V. S. Pugachev, 15 pp.

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JPRS 10282

Sci - Phys   *173,680*

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Integral Canonical Representation of Random
Functions and Their Application in Deriving
Optimal Linear Systems, by V. S. Pugachev, 15 p.

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by V. Pugachev, B. Marisov, 10pp
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Sci - Engineering
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Theory of Random Functions and Its Application to
Automatic Control Problems.   Table of Contents, by
V. S. Pugachev, 5 pp.

RUSSIAN, per, Gosudarstvennoe Izdatel'stvo Tekhnik
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SLA R-3087

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TOWARD A THEORY OF DETECTION AND EVAL-
UATION OF SIGNALS WHICH DEPEND ON A
COUNTABLE SET OF PARAMETERS. [1962] 22p.
6 refs.
Order from OTS or SLA $2. 60   62-20232

Trans. of A[kademiya] N[auk] SSSR. O[tdelenie]
T[ekhnicheskikh] N[auk]. Izv[estiya]: Energ[etika] i
Avto[matika] 1961, no. 5, p. 123-135.

DESCRIPTORS: *Signals, *Detection, *Statistical
functions, Theory, Analysis, Probability, Series,
Mathematical expectation.

The article presents the theory of joint canonical ex-
pansions of two random functions in one and the same
system of coordinate functions, and its application to
the solution of problems in the detection and evaluation
(including selection) of signals which depend on an
(Research Methods--Communication Theory, TT, v. 9,
no. 11)   (over)

62-20232

I. Title: Optimization
I. Pugachev, V. S.

AD87931

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The General Condition for the Minimum Mean-Square
Error in a Dynamic System, by V. S. Pugachev, 8 pp.

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Sci - Engineering
Feb 1957 CTS/dex   *43,611*

The Use of Canonical Expansions of Random Functions
in Determining an Optimum Linear System, by V. S.
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Sep 57   52,857

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(Obshchaya Teoriya Sluchainykh Funktsii i Ee Pri-
menenie v Teorii Avtomaticheskofo Regulirovaniya).
[1961] [53]p. (foreign text included) 17 refs. [DSIR
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Order from OTS or SLA $5.60   61-27556

I. Pugachev, V. S.
II. DSIR NLL M. 3084
III. Title: All-Union...

Trans. of mono. Trudy [Vtorogo] Vsesoyuznogo
Soveshchaniya po Teorii Avtomaticheskogo Reguliro-
vaniya [All-Union Conference on the Theory of Auto-
matic Control (no. 2). Proceedings,
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DESCRIPTORS: Automatic, *Control systems, Statis-
tical processes, *Statistical functions, Theory,
Automation.
(Engineering--Electronic, TT, v. 7, no. 5)

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AND ITS APPLICATION TO AUTOMATIC CONTROL
(Obshchaya Teoriya Sluchainykh Funktsil i Ee Pri-
menenie v Teorii Avtomaticheskofo Regulirovaniya).
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Moscow/Leningrad] 1955, p. 403-424.

DESCRIPTORS: Automatic, *Control systems, Statis-
tical processes, *Statistical functions, Theory,
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II. DSIR NLL M. 3084
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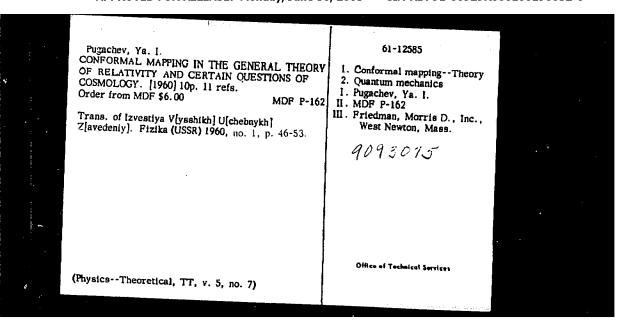RUSSIAN, per, Izvestiya, VUZ, Fizika, No 1, 1964,
pp 76-80.
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1. Conformal mapping--Theory
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I. Pugachev, Ya. I.
II. MDF P-162
III. Friedman, Morris D., Inc.,
West Newton, Mass.

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Surface Tensions of Alkali Metals Amalgams at
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4 pp.

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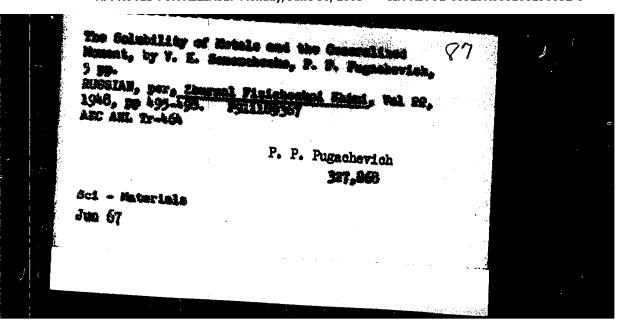
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Scientific - Chemistry   Dec 1954 CTS

Temperature Dependence of the Surface Tension
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No 1, 1952, pp 117-119.

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Scientific - Min/Metals

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THE PROBLEM OF THE HYGIENIC ENVIRONMENT IN
WORKING WITH RADIOACTIVE LUMINESCENT DYES WHICH
ARE CONSTANTLY ACTIVE, BY N. A. ROGOZKIN,
B. P. PODACHEVSKIY, 8 PP.

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PP 186-189.

JPRS 14308

SCI - MED

Increasing the Protein Content of Corn Through
Selection, by A. E. Kovarskiy, B.P. Pugalov.
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USDA Tr A-1423

Sci - Agri
Mar 64

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· 61-27534

Pugachev, V. S.
A METHOD OF DETERMINATION OF THE OPTI-
MUM SYSTEM FROM THE GENERAL BAYES CRITE-
RION (Metod Opredeleniya Optimul'noi Sistemy po
Obshchemu Biesovu Kriteriyu). [1961] [23]p. (equations
omitted) 12 refs. [DSIR LLU] M. 3128.
Order from OTS or SLA $2.60   61-27534

Trans. of Akad[emiya] Nauk SSSR. O[tdelenie]
T[ekhnicheskikh] Nauk. Izvest[iya]: Energetika i
Avtomatika, 1960, no. 2, p. 83-97. 9099 737

DESCRIPTORS: *Signals, Detection, Reproduction,
Noise, Statistical processes, *Probability, *Control
systems.

A method is described for determining the optimum
system from the general Bayes criterion in the case
when the input observed function and the signal being
(Engineering--Electronic, TT, v. 6, no. 10)   (over)

1. Title: Bayes criterion
I. Pugachev, V. S.
II. DSIR LLU M. 3128

Office of Technical Services

PB-   61-27534

detected or reproduced depend on a finite-dimensional random vector U while the noise is additive, has a normal distribution, and is independent of the vector U. In some cases this method can be used when the vector U has an infinite (countable) number of components. The method for the case of linear dependence of the input function on the vector $U^{(1)}$ is a special case developed by the author earlier. The method can also be applied to problems in which the input function can be reduced by means of a nonlinear transformation independent of the vector U to a sum of a certain function of vector U and the normally distributed noise independent of this vector.

(NY-6502)

Application of the Theory of Markoff Processes
to the Analysis of the Accuracy of Automatic
Systems, by V. S. Pugachev, 15 pp.
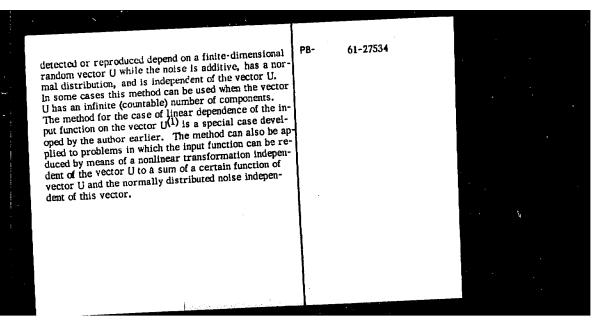
RUSSIAN, per, Energet i Avtomat, No 3, 1961,
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JPRS 10282

173,680

Sci - Phys
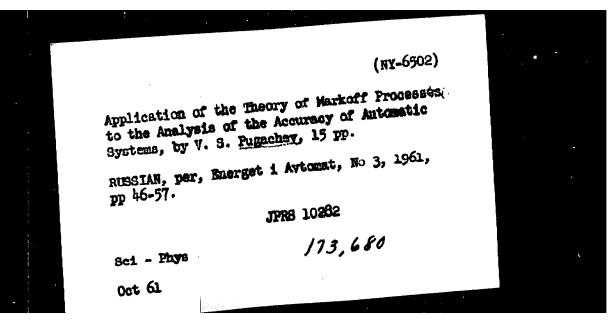
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Integral Canonical Representation of Random
Functions and Their Application in Deriving
Optimal Linear Systems, by V. S. Pugachev, 15 p.

RUSSIAN, per, Avtomat i Telemekh, Vol XVIII, No 11,
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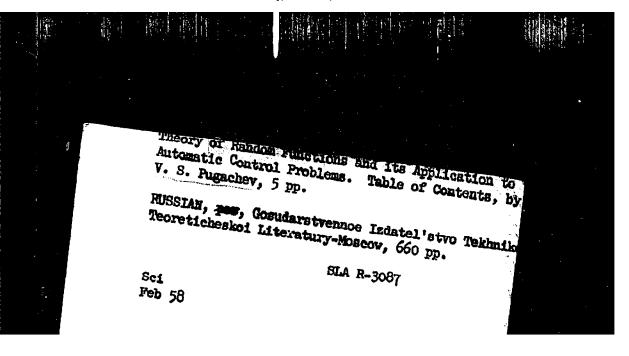
Feb 60   108,707

Red Star Series on Guided Missiles. PT.
I. Construction and Methods of Application,
by V. Pugachev, B. Marisov, 10pp
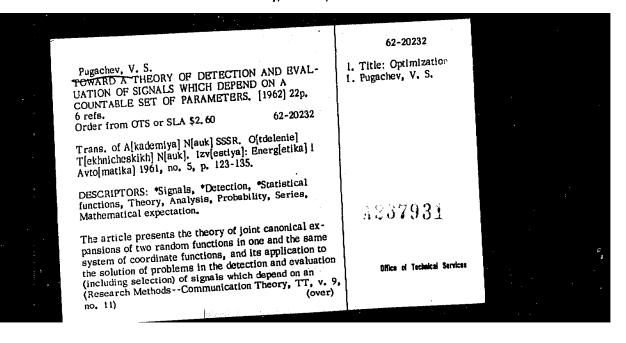RUSSIAN, per, Krasnaya Zvezda, 1955, 15 Feb,
pp 3,
CFSTI TT-64-71260

V. Pugachev

323,831

Sci - Engineering
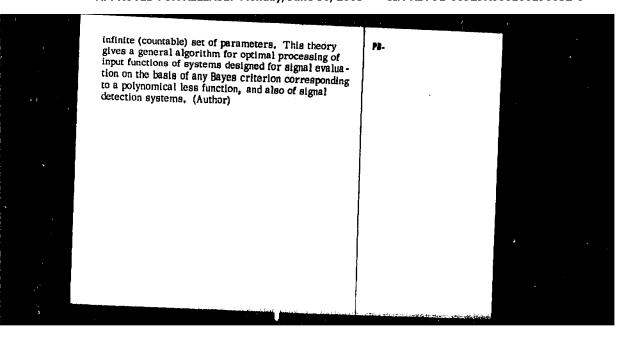Apr 67

Theory of Random Functions and its Application to
Automatic Control Problems. Table of Contents, by
V. S. Pugachev, 5 pp.

RUSSIAN, per, Gosudarstvennoe Izdatel'stvo Tekhniko
Teoreticheskoi Literatury-Moscow, 660 pp.

SLA R-3087

Sci
Feb 58

62-20232

Pugachev, V. S.
TOWARD A THEORY OF DETECTION AND EVAL-
UATION OF SIGNALS WHICH DEPEND ON A
COUNTABLE SET OF PARAMETERS. [1962] 22p.
6 refs.
Order from OTS or SLA $2.60   62-20232

Trans. of A[kademiya] N[auk] SSSR. O[tdelenie]
T[ekhnicheskikh] N[auk]. Izv[estiya]: Energ[etika] l
Avto[matika] 1961, no. 5, p. 123-135.

DESCRIPTORS: *Signals, *Detection, *Statistical
functions, Theory, Analysis, Probability, Series,
Mathematical expectation.

The article presents the theory of joint canonical ex-
pansions of two random functions in one and the same
system of coordinate functions, and its application to
the solution of problems in the detection and evaluation
(including selection) of signals which depend on an
(Research Methods--Communication Theory, TT, v. 9,
no. 11)   (over)

1. Title: Optimization
I. Pugachev, V. S.

A257931

Office of Technical Services

infinite (countable) set of parameters. This theory gives a general algorithm for optimal processing of input functions of systems designed for signal evaluation on the basis of any Bayes criterion corresponding to a polynomical less function, and also of signal detection systems. (Author)

PB-

The General Condition for the Minimum Mean-Square
Error in a Dynamic System, by V. S. Pugachev, 8 pp.

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Sci - Engineering
Feb 1957 CTS/dex

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RUSSIAN, mo per, Avtomat i Telemekh, Vol XVII, No 6,
Jun 1956, pp 489-499.

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Sci - Physics
Sep 57   *52,857*

Possible General Solution of the Problem of
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Jul 1957, pp 585-589.

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Sci - Physics
Nov 57   55, 047

The Equation for Determining the Distribution
Law for the Integral of a System of Ordinary
Differential Equations Containing Random
Parameters, by B. G. Dostupov, V. S. Pugachev,
18 p.

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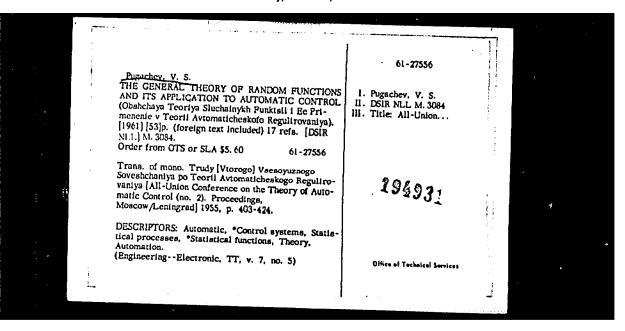1958, pp 519-539.

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