

ARTOBOLVSKIY, I.I., akademik; GERNET, M.M., doktor tekhn. nauk, prof.

Mechanism for plotting a trochoid and its possible use. Izv. vuz.
ucheb. sav.; mashinostr. no.11/12:3-7 '58. (MIRA 13:3)

1.Moskovskiy aviatsionnyy institut im. S.Ordshevnkida (for Artobolev-
skiy). 2.Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti
(for Gernet).

(Mathematical instruments)

ARTOBOLEVSKIY, I.I.

Conference on the theory of mechanisms at the High Technical
School in Dresden. Izv.AN SSSR, Otd. tekhn. nauk no.12:153-155
D '58. (MIRA 11:12)
(Dresden--Mechanical movements--Congresses)

ARTOBOLVSKIY, I.I., akademik

Some new mechanisms. Trudy Inst.nash,Sem.po teor.math. 18
no.69:5-12 . '58. (MIRA 12:9)
(Mechanical movements)

SISYAKYAN, N.M.; FRANK, G.M.; SHCHERBAKOV, D.I., akademik; S. DORZHKO, A.V.;
ARTOBOLYVSKIY, I.I., akademik; IL'IN, V.A., doktor tekhn. nauk;
DOMANITSKIY, S.M., kand. tekhn. nauk; PETROV, A.P.; BUDNIKOV, P.P.

Soviet scientists on the exhibition. Vest. AN SSSR 28 no.11:100-118
'58. (MIRA 11:12)

1.Chlen-korrespondent AN SSSR. (for Sisayakyan, Sidorenko, Petrov,
Budnikov). 2.Chlen-korrespondent AMN SSSR (for Frank).
(Brussels--Exhibitions)

30(7)

AUTHOR: Artobolevskiy, I. I., Academician 807/30-58-11-32/48

TITLE: Soviet Scientists on the Exposition (Sovetskiye uchenyye o vystavke)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 11, pp 109-111 (USSR)

ABSTRACT: The author is active in the field of technical sciences. He describes his impressions with regard to the exhibits in this field. In his opinion the Palace of Sciences was the most interesting pavilion in this respect. The author also stresses the fact that Soviet science was very impressively represented in this pavilion. Many national pavilions also demonstrated aspects of modern technology, but in the opinion of the author the exhibits in the Soviet pavilion were the most varied and impressive ones. In this connection he mentions the artificial earth satellites, the peaceful use of nuclear power etc. Of the other national pavilions he mentions those of Great Britain, France, Czechoslovakia, Belgium, the Federal Republic of Germany, Switzerland, and Japan. He concludes by expressing his disappointment at the US pavilion which contained only few, if excellent, exhibits which were of interest to the

Card 1/2

Soviet Scientists on the Exposition

807/30-58-11-32/18

expert in modern technology, although the United States
are generally known and respected for their great performance
in the field of modern technology. There is figure.

Card 2/2

Name : ARTOBOLEVSKIY, I. I.

Title : Academician

Remarks : I. I. Artobolevskiy is the author of an article entitled "Intelligent' Machines." The article mentions an original automatic milling machine with an electronic programming system, built by the Experimental Scientific Research Institute of Machine Tools and the Institute of Machine Science of the USSR Academy of Sciences. This 'intelligent' machine is able to perform even the most difficult tasks automatically. The instructions are written on films in special symbols, and a different film is given to the machine for each new task that it must perform.

Source : N: Vechernyaya Izvestiya, No. 288, 9 December 1958, p. 3, c. 1-3

3.

16(1)

PHASE I BOOK EXPLOITATION

SOV/2658

Artobolevskiy, Ivan Ivanovich

Teoriya mekhanizmov dlya vosproizvedeniya ploskikh krivyykh (Theory of Plane Curve-tracing Mechanisms) Moscow, Izd-vo AN SSSR, 1959. 253 p. (Series: Problemy teorii mashin) 4,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya.

Ed.: N.I. Levitskiy, Doctor of Technical Sciences, Professor; Ed. of Publishing House: Z.N. Periya (Deceased); Editorial Board: I.I. Artobolevskiy, Academician (Resp. Ed.); A.A. Blagonrovov, Academician; N.G. Bruyevich, Academician; V.I. Dikushin, Academician; S.V. Serensen, Academician, Ukrainian SSR Academy of Sciences; S.V. Pinagin, Doctor of Technical Sciences, Professor; N.I. Levitskiy, Doctor of Technical Sciences, Professor; P.M. Dimentberg, Doctor of Technical Sciences; A.Ye. Kobrinskiy, Doctor of Technical Sciences; N.P. Rayevskiy, Candidate of Technical Sciences; and A.P. Bessonov, Candidate of Technical Sciences (Scientific Secretary).

PURPOSE: This book is intended for mathematicians and design engineers.

Card 1/5

Theory of Plane Curve-tracing Mechanisms (Cont.)

80V/2658

COVERAGE: This book generalizes the results of Soviet and foreign scientists in the theory of curve-tracing mechanisms, and presents the author's works on the subject, which have been published in various journals and periodicals in the last 10 to 15 years. In this book, the so-called geometric-algebraic approach, i.e., the combination of geometric constructions with the analytic theory of algebraic and transcendental curves, is developed. The monograph studies in detail mechanisms for tracing algebraic curves up to 4th order inclusive and certain mechanisms for tracing algebraic curves of higher order than 4th and of transcendent curves. The methods of tracing are given for closed curves and for open curves with one or more branches. The author thanks Professor N.I. Levitakiy, Doctor of Engineering Sciences, for editing the book, and A. (e. Kobrinskiy, Doctor of Engineering Sciences, for his valuable advice concerning the book. References appear in footnotes.

TABLE OF CONTENTS:

Preface

3

Ch. I. Fundamentals of the Theory of Curve-tracing Mechanisms With Higher Pairs of the Fourth Class

1. Tracing curves with centroid and trajectory pairs

7

2. Tracing curves with a three-link kinematic chain

7

Card 2/5

8

25(2)

PHASE I BOOK EXPLOITATION

507/2985

Artobolevskiy, Ivan Ivanovich, Nikolay Ivanovich Levitskiy, and
Sergey Aleksandrovich Cherkudinov

Sintez ploskikh mekhanizmov (Synthesis of Planar Mechanisms)
Moscow, Fizmatgiz, 1959. 1084 p. 10,000 copies printed.

Ed.: A. Ye. Kobrinskiy; Tech. Ed.: N. Ya. Murashova.

PURPOSE: The book is intended for scientific research workers,
engineers, designers, lecturers, and students in advanced courses
at schools of higher technical education.

COVERAGE: The book discusses exact and accurate methods of the
synthesis of mechanisms. Problems solved by algebraic methods
are distinguished from problems solved by geometrical methods.
In some cases suggestions are made for the application of the method
being discussed to particular space mechanisms. The uses of
general methods of synthesis are illustrated by examples. A
list of basic literature is presented. It includes works
published up to 1957. The Introduction contains historical and
bibliographical information on the development of the theory
Card 1/10

Synthesis of Planar Mechanisms

507/2985

of the synthesis of mechanisms. The authors thank Professor Ya. L. Geronimus, Doctor of Physical and Mathematical Sciences, and A. Ye. Kobrinskiy, Doctor of Technical Sciences, for their comments and suggestions. There are 285 references: 172 Soviet, 81 German, 19 English, 12 French, and 1 Latin.

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PART I. SOME INFORMATION ON THE THEORY OF THE STRUCTURE AND KINEMATIC GEOMETRY OF MECHANISMS	
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2. Four-link mechanisms	44
3. Five-link mechanisms	62
4. Six-link mechanisms	67
Card 2/10	

25(2), 28(1)

SOV/30-59-5-4/61

AUTHOR: Artobolevskiy, I. I., AcademicianTITLE: Important Problems of the Theory of Machines and Mechanisms
(Vazhnyye problemy teorii mashin i mekhanizmov)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 3, pp 19-20 (USSR)

ABSTRACT: In the present paper the author reports on the stage of these problems and refers to those questions which are of special current interest and consequently should be solved first of all. A particularly urgent problem is the development of the general theory and the calculation methods for automatic machines and mechanisms, which partly consist of rigid elements such as levers, cams and cogwheels. In this connection special attention should be devoted to the new cogging method of M. L. Nevikov. A great deal remains to be done also in the synthesis and calculation of hydraulic, pneumatic and electrical equipment of automatic machines. The synthesis of systems with a preset course for the treatment of complicated parts is mentioned as an important problem. For nuclear engineering and other activities unhealthy for man special manipulating mechanisms are necessary which permit remote control. The Institut

Card 1/2

Important Problems of the Theory of Machines and Mechanisms SOV/30-59-3-4/61

mashinovedeniya Akademii nauk SSSR (Institute of Machine Construction of the Academy of Sciences, USSR) deals with this problem. Continuously more importance is attached to dynamical problems of machines which are regarded as elastic systems. In this connection the author makes reference to papers of I. V. Meshcherskiy. The investigation of the actual motions of the system motor - working machine is also regarded as an important problem of the modern theory of machines. Finally the author states that at present more attention should be devoted to this field by the Academies of Sciences of the USSR and the Union's Republics, the Branch Academies of Sciences, scientific research institutions, construction- and design-offices, industrial laboratories and chairs of universities. For the purpose of coordinating this work the author suggests to establish leading institutes for the individual problems. The AS USSR should attach more importance to the development of the Institute of Machine Building and its corresponding laboratories.

Card 2/2

ARTOBOL'VSKIY, I.I., akademik; KUDRYAVTSEV, P.S., prof.; GORODNIKOV, K.F.,
prof.; REHONSHITSKIY, B.N., kand. tekhn. nauk; DROGOV, A.A., kand.
tekhn. nauk; VASIL'YEV, I.G., kand. tekhn. nauk; ISLAMOV, O.I., kand.
geol.-miner. nauk; IMONOV, N.I., prof.; RAZNOVICH, Ye.A., doktor geol.-
miner.nauk; KUZNETSOV, B.G., prof.; MARIYENBACH, L.M., prof.;
RUBINSHEVICH, M.I., prof.; KALMYKOV, K.F., kand. tiel. nauk;
KOMPENRATOV, I.Ya., prof.; KOZLOV, A.G.; ZUBOV, V.P., prof.;
IMSHINETSKIY, A.A.; DORFMAN, Ya.G., prof.; SHENKARDIN, S.V., kand.
tekhn.nauk; KEDROV, B.M., prof.; DANILEVSKIY, V.V., akademik; SHATSKIY,
N.S., akademik; BYKOV, I.M., akademik.

Speeches. Vop. ist. est. i tekhn. no.6:111-141 '59.

(MIRA 12:6)

1. Chlen-korrespondent AN SSSR (for Imshinetskiy). 2. AN USSR
(for Danilevskiy).

(Science) (Technology)

ARTOBOLVSKIY, V.M.

Previous discovery of *Lepus timidus* Lin. in Penza Province,
Bauk. zap. Kiev. un. 9 no. 6:160 '50. (NIRA 9110)
(Penza Province--Hares)

ARTODOLYVSKIY, V.M.

Migration of the slender-billed nuthacker (*Hemiprocne corvina* *macr-*
rhynchos *Brehm*) in the Ukraine in recent years. *Dokl. Akad. Nauk, Kiev, no. 6:*
161 '50. (MIRA 9110)
(Ukraine--Nuthackers (Birds)) (Birds--Migration)

ARTOKHIN, Yu.A.

Recording the optical density distribution with a point densi-
tometer. Prib. i tekhn. eksp. 9 no.3:218-219 My. Zh. '64
(MIRA 18:1)

180 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

Adhere to planned maintenance schedules. Bezop. truda i prod.
8 no. 14:33-35 1 '64. (MIRA 18-3)

1. Gosudarstvennyy komitet pri Sovete Ministrov RS SSSR po nadzoru
za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.

GUBITSYN, N.M., otv. red.; ARTOMASOV, A.D., otv. red.;

[Provisional regulations on safety engineering and industrial hygiene for explosion- and fire-hazardous chemical industries] Vremennye pravila tekhniki bezopasnosti i promsanitarii dlia vzryvo- i ognepasnykh khimicheskikh proizvodstv. Moskva, Izd-vo "Nedra," 1964. (MIRA 1':9)
79 p.

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.

ARTSABKA, A.L.

Upper Tortonian and Lower Sarmatian sediments in the Inner zone
of the Carpathian piedmont fault. Geol. zhur. 23 no.5:100-
101 '63. (MIRA 16:12)

1. Geologorosschukova kontora trestu "L'vivnaftogazrozvidka."

ARTSEULOV, K.

Subject : USSR/Aeronautics - Miscellaneous AID P - 5289
Card 1/1 Pub. 58 - 7/11
Author : Artseulov, K.
Title : How the spin was vanquished
Periodical : Kryl. rod., 9, 15-16, 8 1956
Abstract : The author relates how, on September 23, 1916, allegedly
for the first time in the history of aviation, he succeeded
to bring a Nieuport 21 plane out of an intentionally
created spin. 1 photo.
Institution : None
Submitted : No date

ARTSEULOV, K.

First wings. Kryl.rod. 14 no.7:27-29 J1 '63. (MIRA 16:9)
(Gliding and soaring)

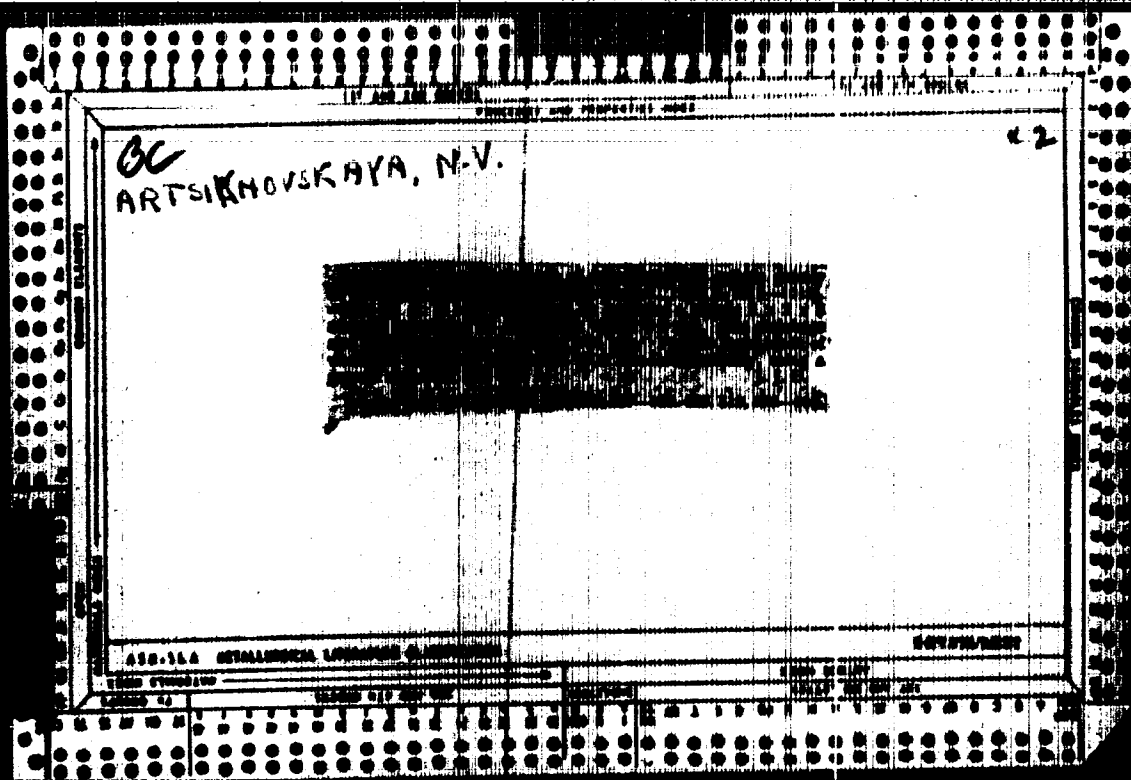
ARTSEV, A.I., inzh.

Determining the operational capacity of infiltration water in-
takes. Vod. 1 sam. tekhn. no. 4:26-32 Ap '64 (4IRA 18:1)

MEL'NIKOV, A.I.; ARTSIBASHEVA, L.I.

Mechanism of the cleaning of the reinforcement frames. Koks i khim.
no.8:30 '62. (MIRA 17:2)

1. Magnitogorskiy metallurgicheskiy kombinat.



ARTSIKHOVSKAYA, N.V.; RUBIN, B.A., prof., otv. red.; ROMANOVSKAYA, Ye.S.,
red.

[International bibliography of photosynthesis] Fotosintez; ukazatel'
otechestvennoi i inostranoi literatury. Otv. red. B.A.Rubin. Biblio-
graficheskii red. E.S.Romanovskaya. Moskva, Izd-vo Mosk. univ.
Vol.1.1951-1958, Part 1. 1961. 387 p. (MIRA 14:6)
(Bibliography--Photosynthesis)

ARTSIKHOVSKAYA, N.V.; RUBIN, B.A., prof., otv. red.

[Photosynthesis; index of Russian and foreign literature] Fotosintez; ukazatel' otechestvennoi i inostranoi literatury. Otv. red. B.A.Rubin. Bibliograficheskii red. E.S.Romanovskaia. Moskva, Izd-vo Mosk. univ. Vol.1. 1951-1958. Pt.2. 1961. 401 p.
(MIRA 14:10)

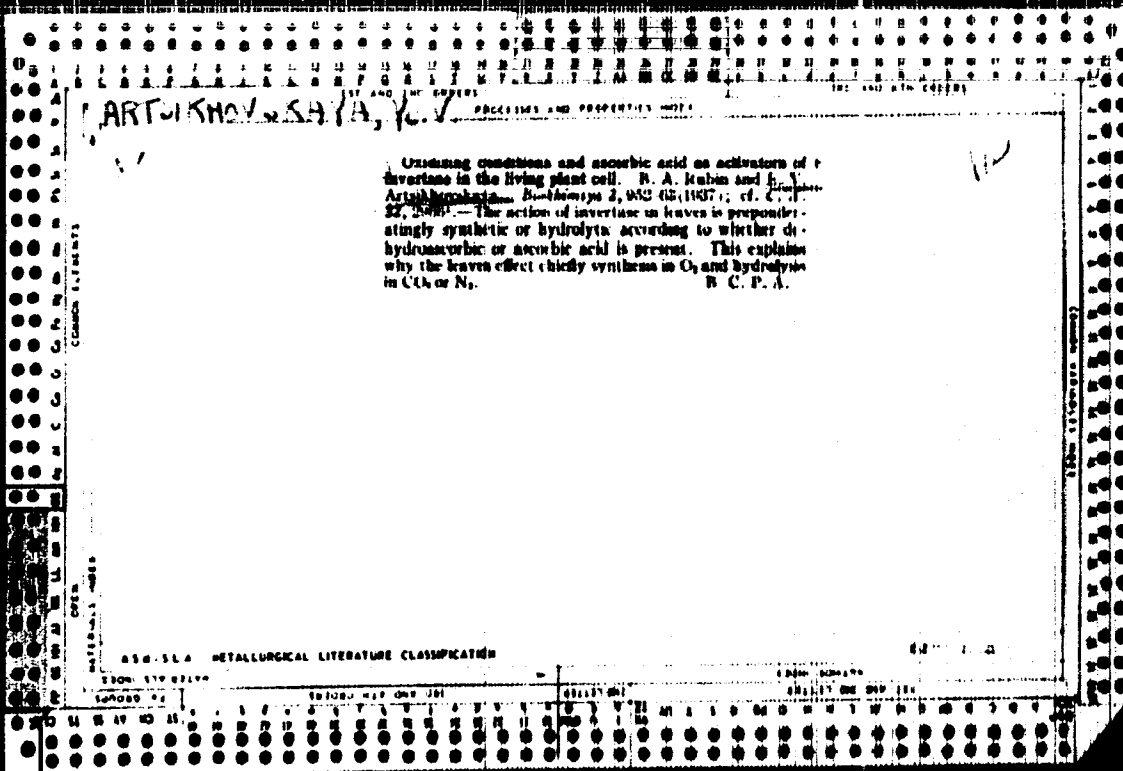
(Bibliography—Photosynthesis)

ARTSIKHOVSKAYA, N.V.; RUBIN, B.A., prof., otv. red.; ROMANOVSKAYA, Ye.S.,
red.; RUBIN, B.A., red.

[Photosynthesis; index of Soviet and foreign literature] Foto-
sintez; ukazatel' otechestvennoi i inostrannoii literatury. Otv.
red. B.A.Rubin. Bibliogr. red. E.S.Romanovskaya. Moskva, Izd-vo
Mosk. univ., Vol.1. 1951-1958. Pt.3. 1961. 504 p.

(Bibliography--Photosynthesis)

(MIRA. 1962)



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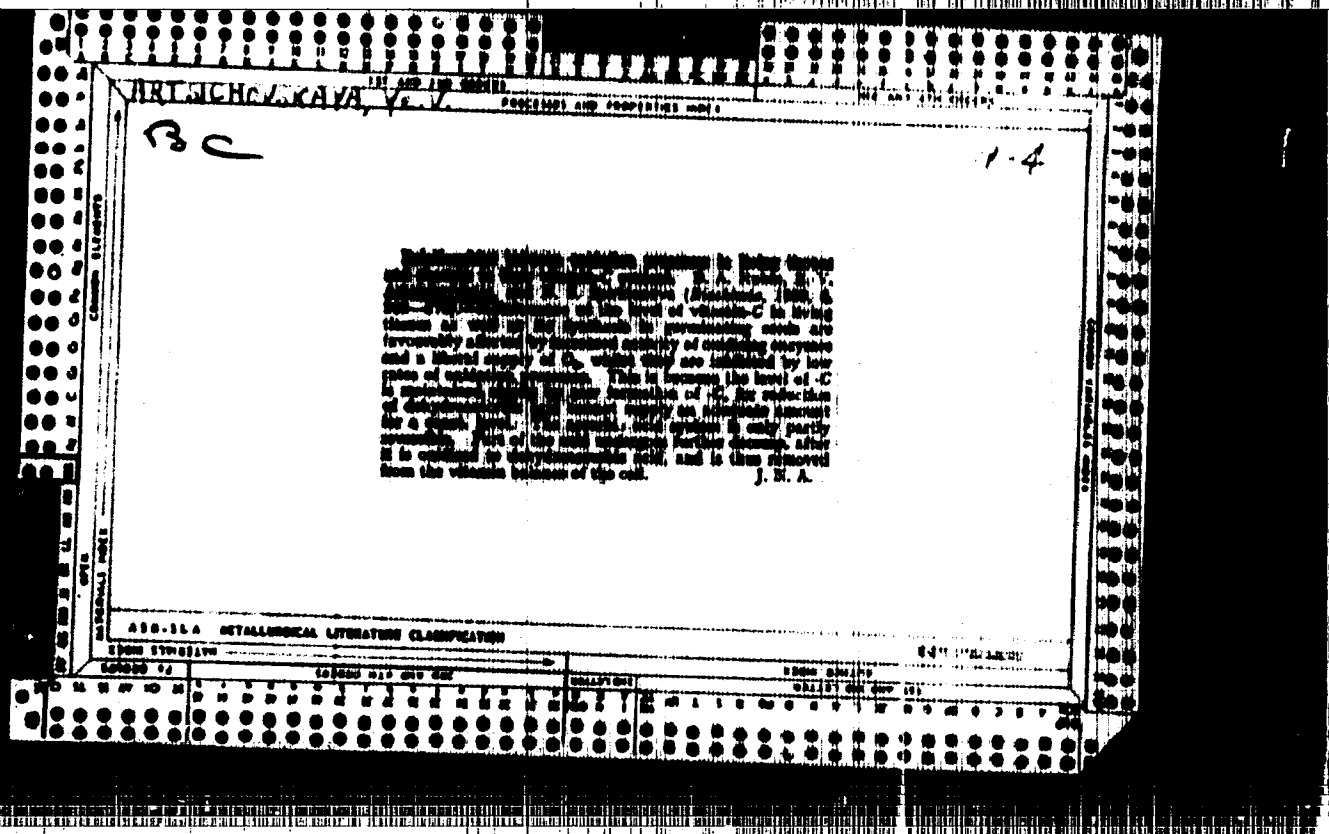
11d

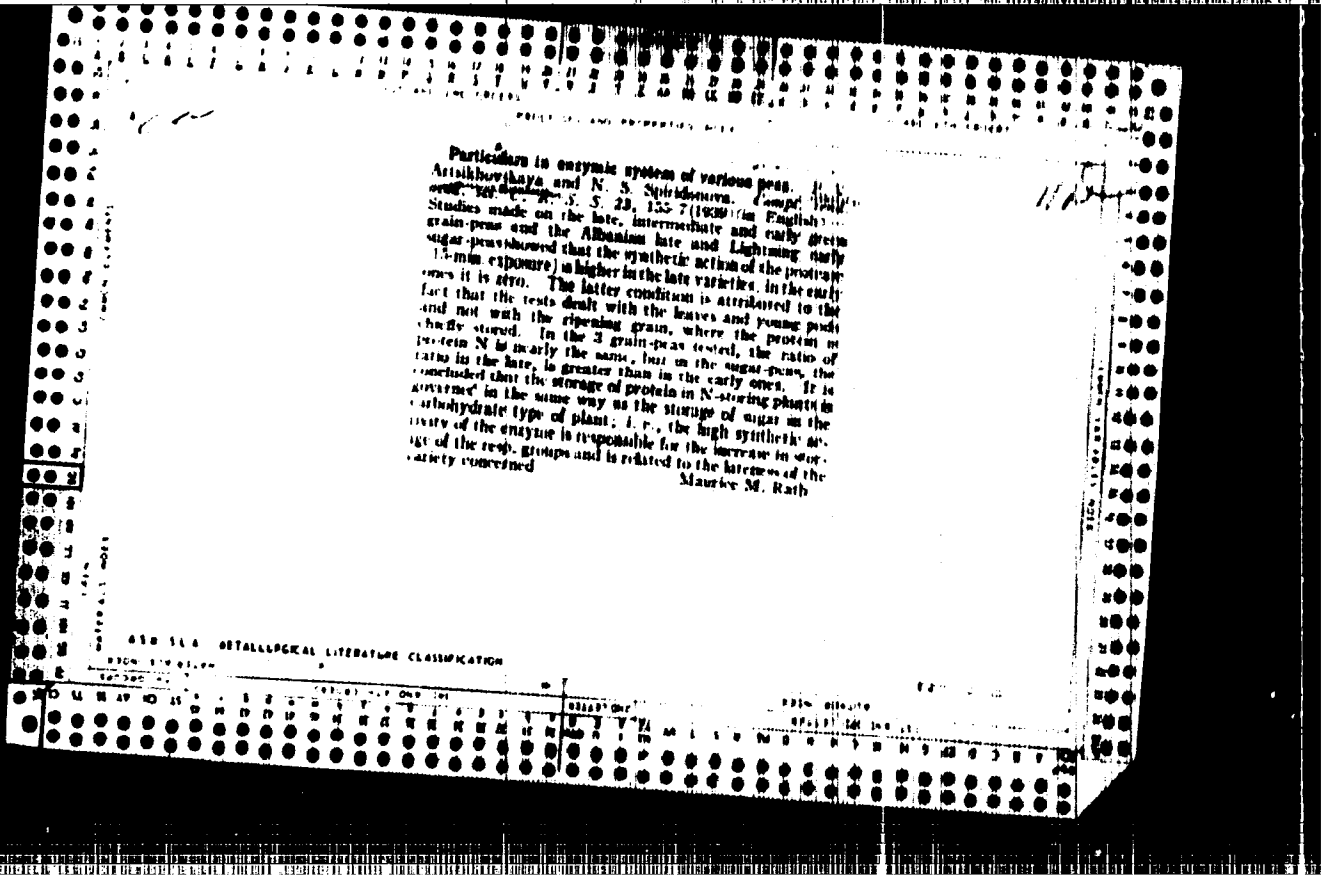
Sources of vitamin C formation in the living plant cell
 H. A. Rubin, E. Y. Artyukhovich, N. S. Spiridonova
 and O. T. Lashova. *Biohimiya* 4, 200-7 (1969). The
 ascorbic acid content increased when wheat sprouts were
 infiltrated by a soln. of sucrose. In a N atm. no increase
 was observed, whereas in O₂ the increase in ascorbic acid
 as a result of the infiltrated sugar was 2.5 times the normal
 content. Oxidation processes in living tissues and the
 changes in their vitamin C content. *Ibid.*, 206-75. The
 content of vitamin C in germinating seeds increased when
 the cells are supplied with a good source of O₂. Deprotonating
 the oxidative processes leads to a fall in the vitamin C
 content. H. Proskier

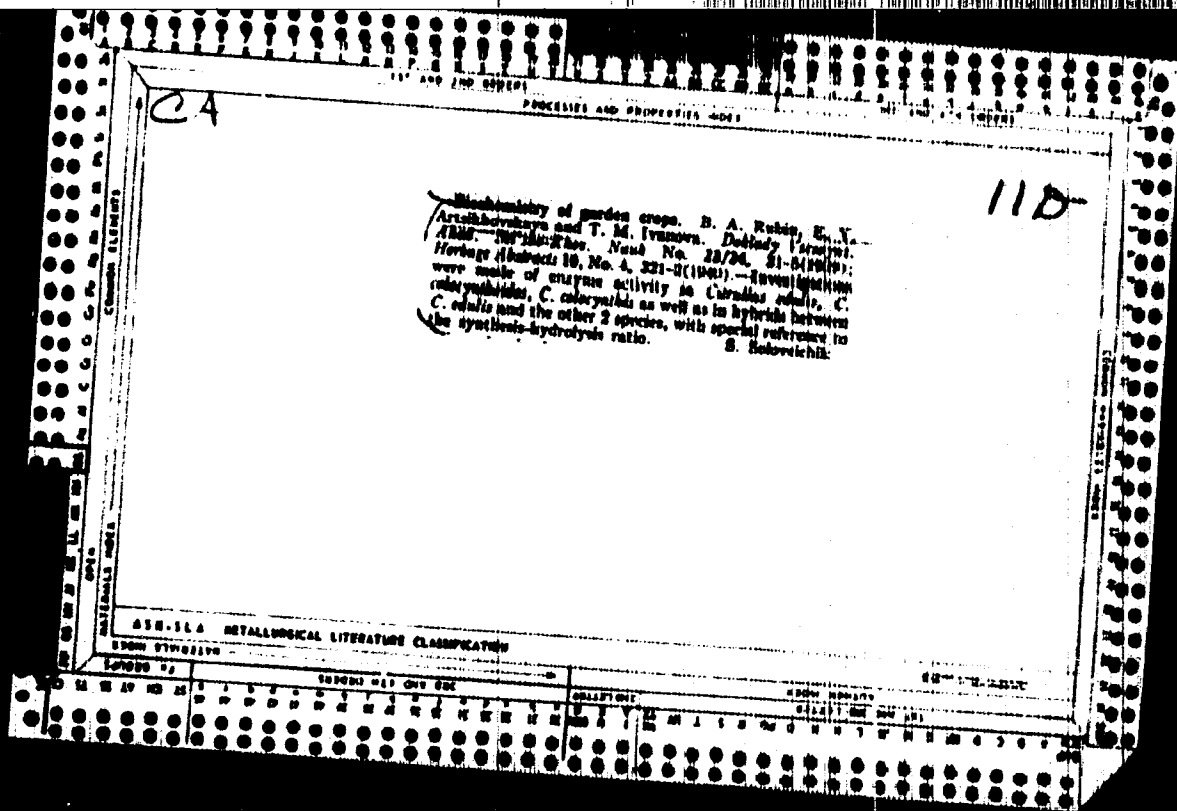
650-514 METALLURGICAL LITERATURE CLASSIFICATION

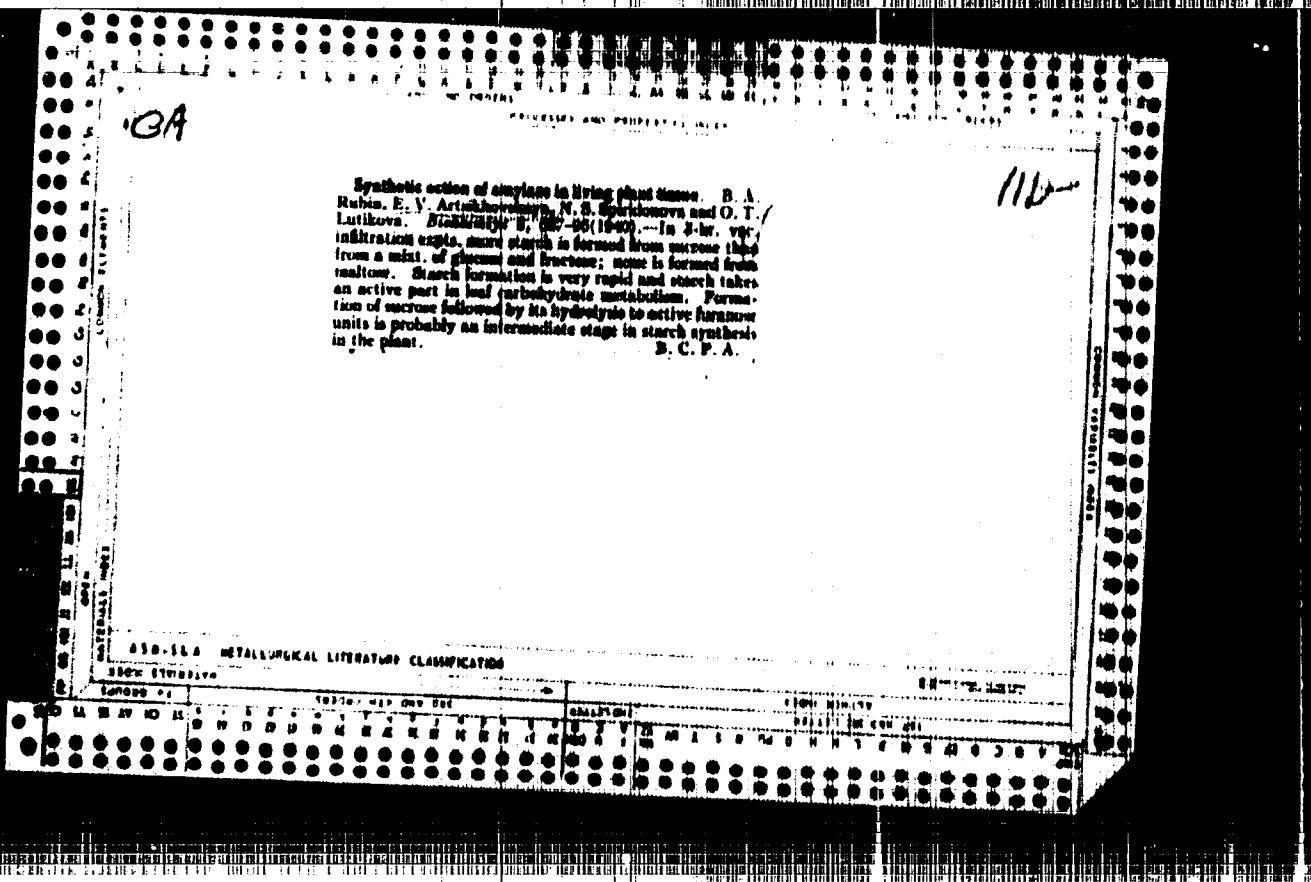
650-514

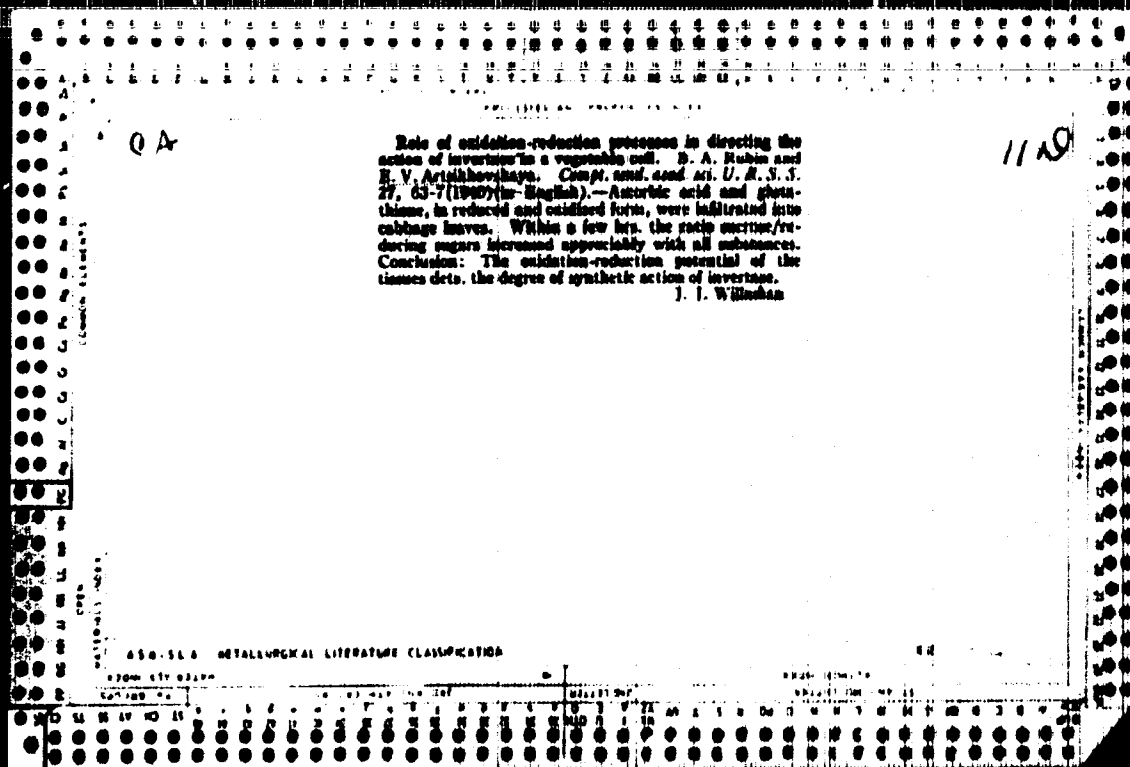
650-514

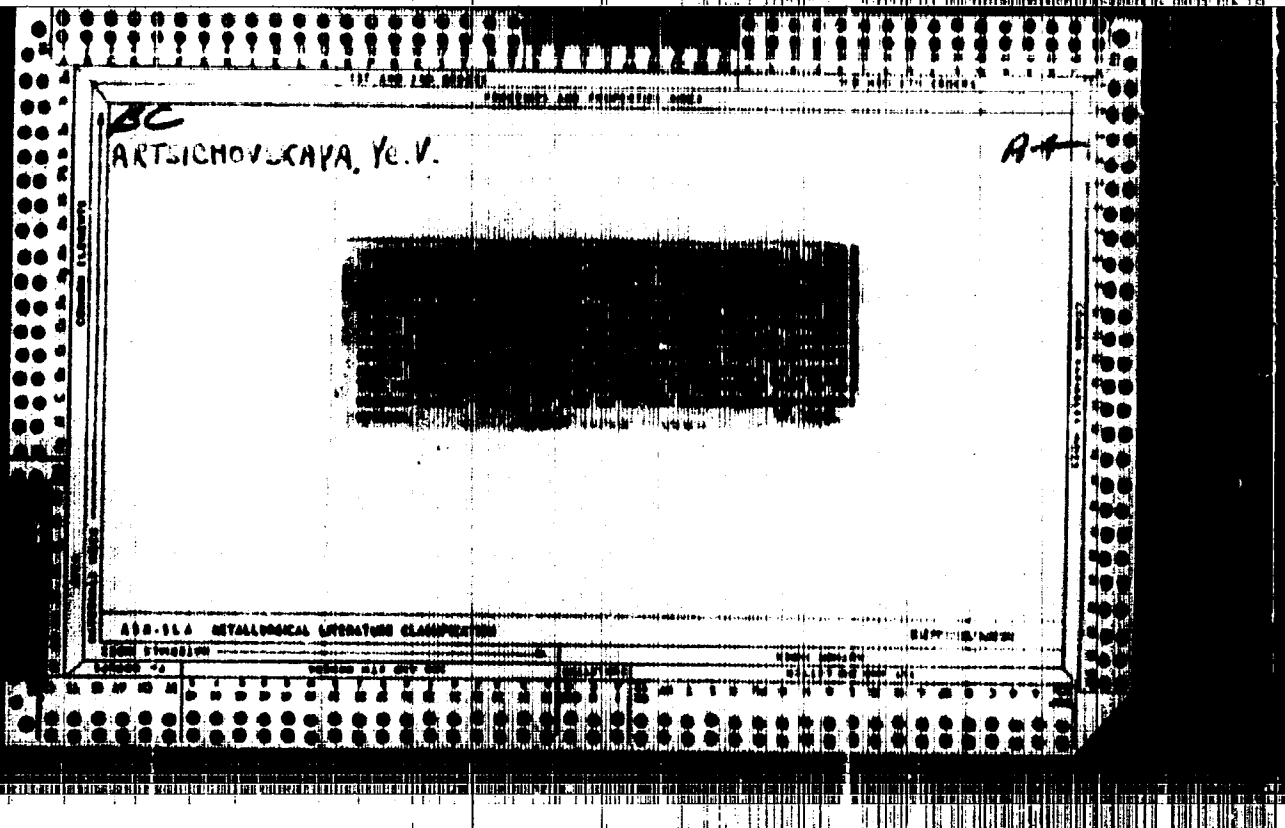


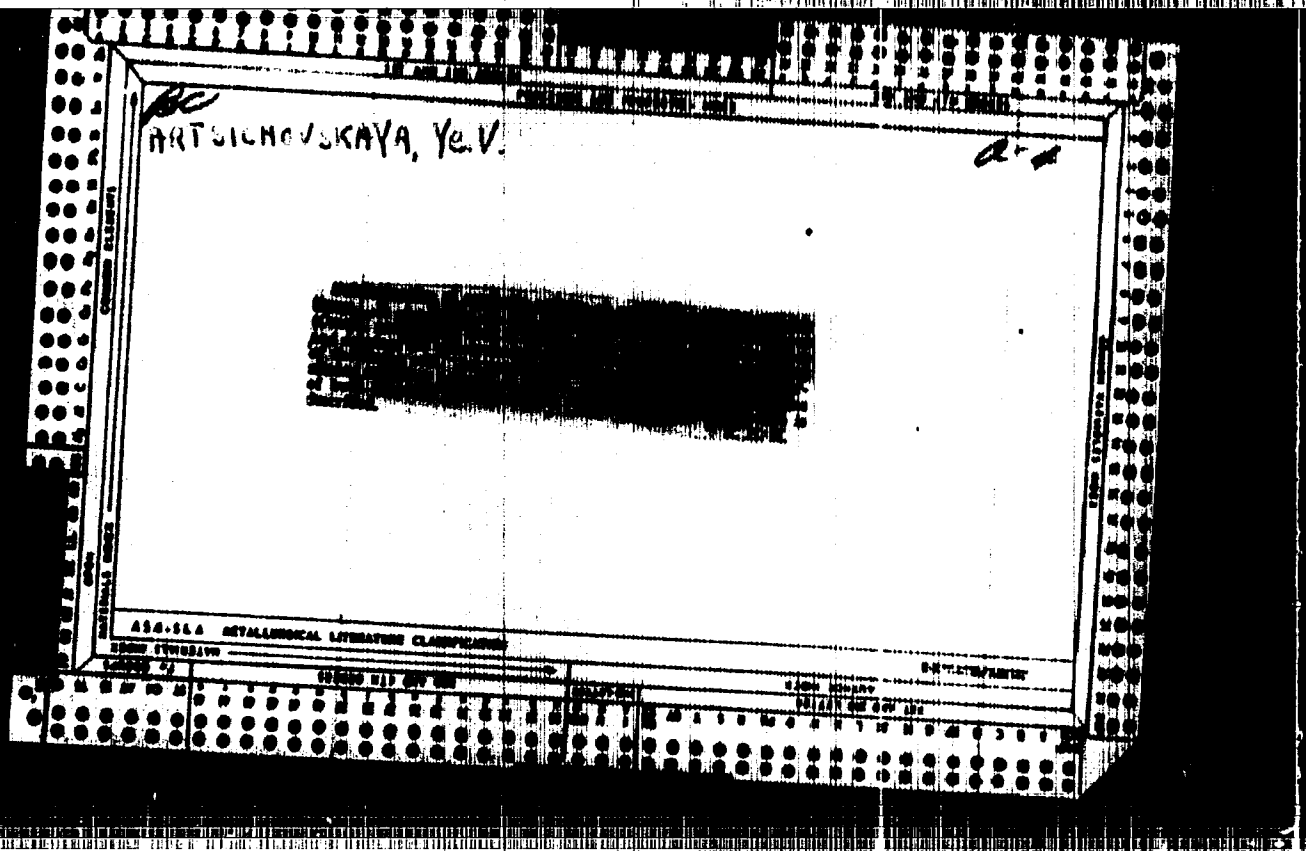


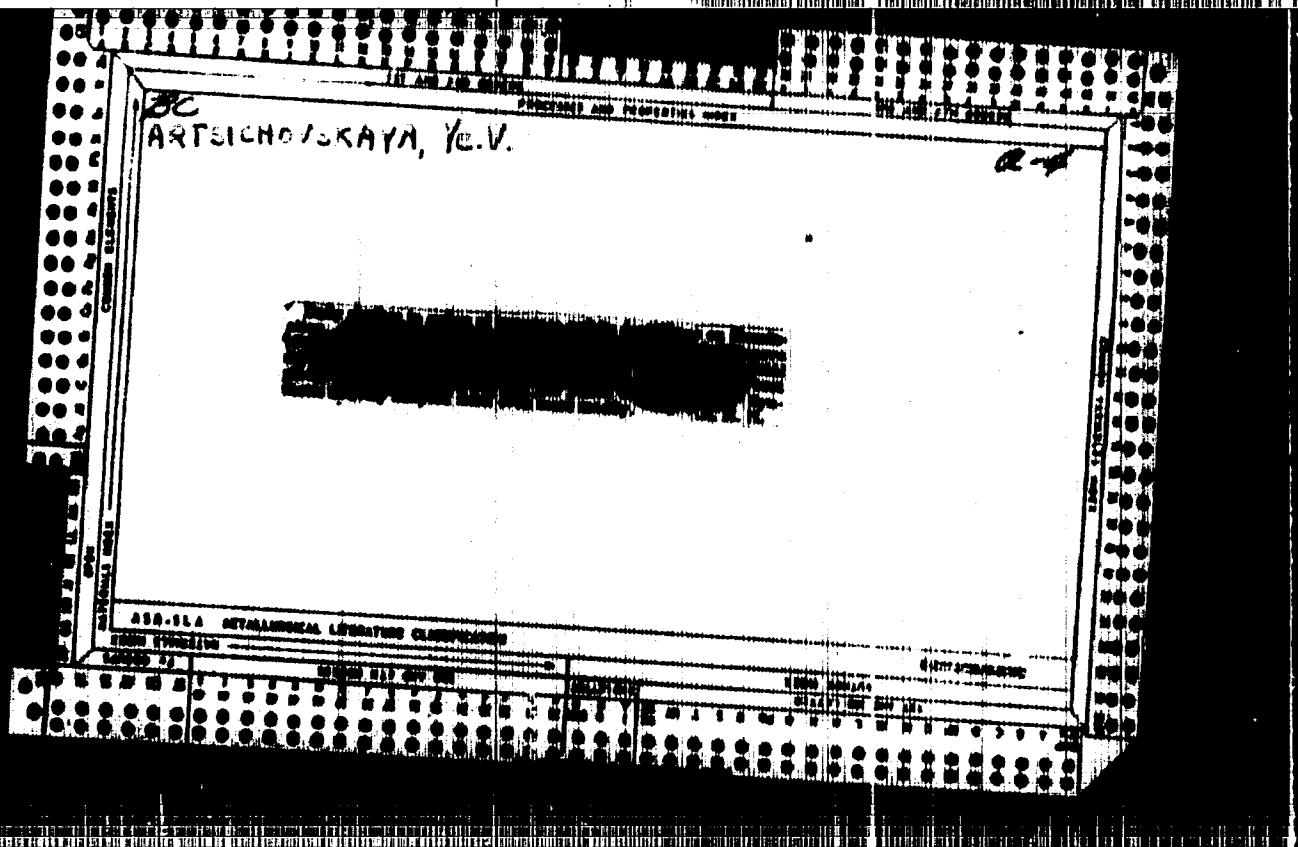


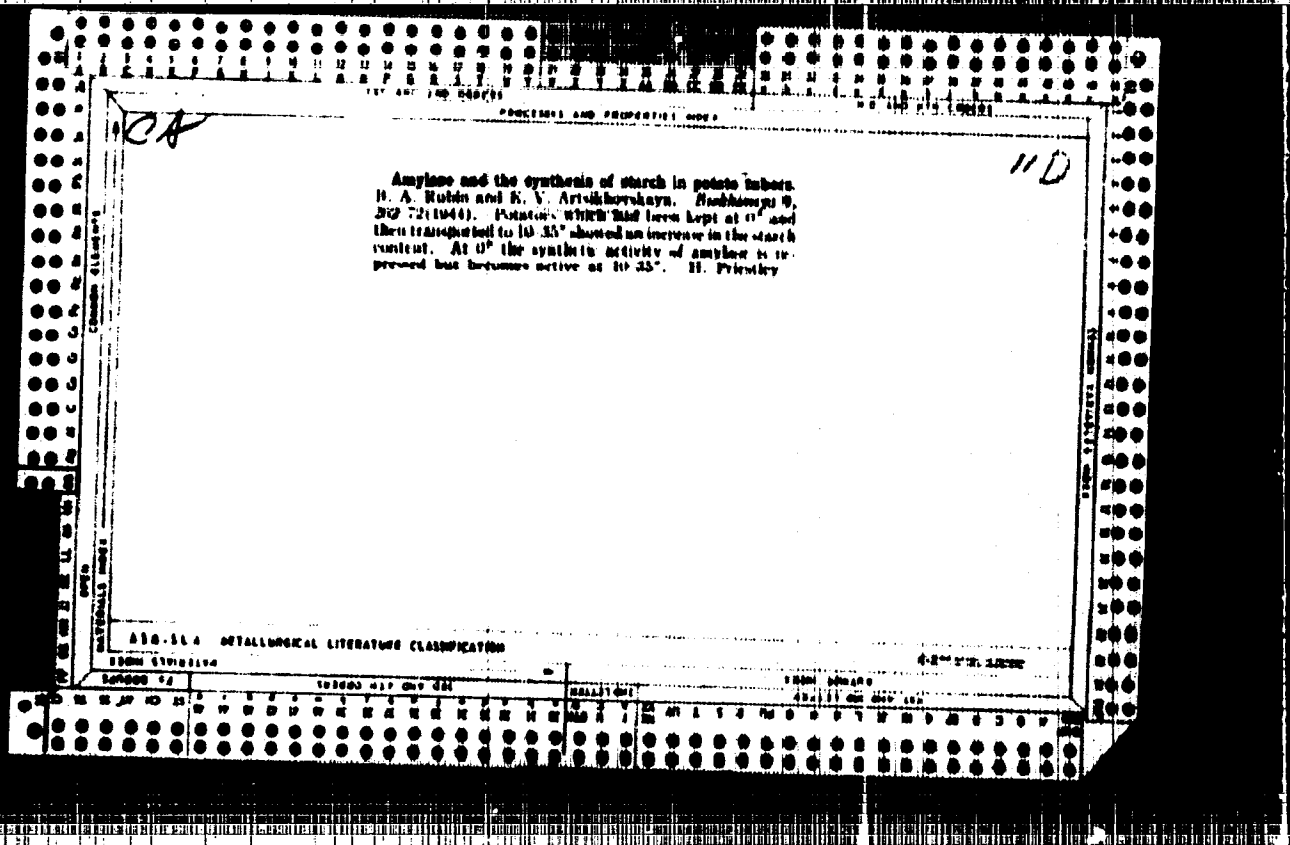


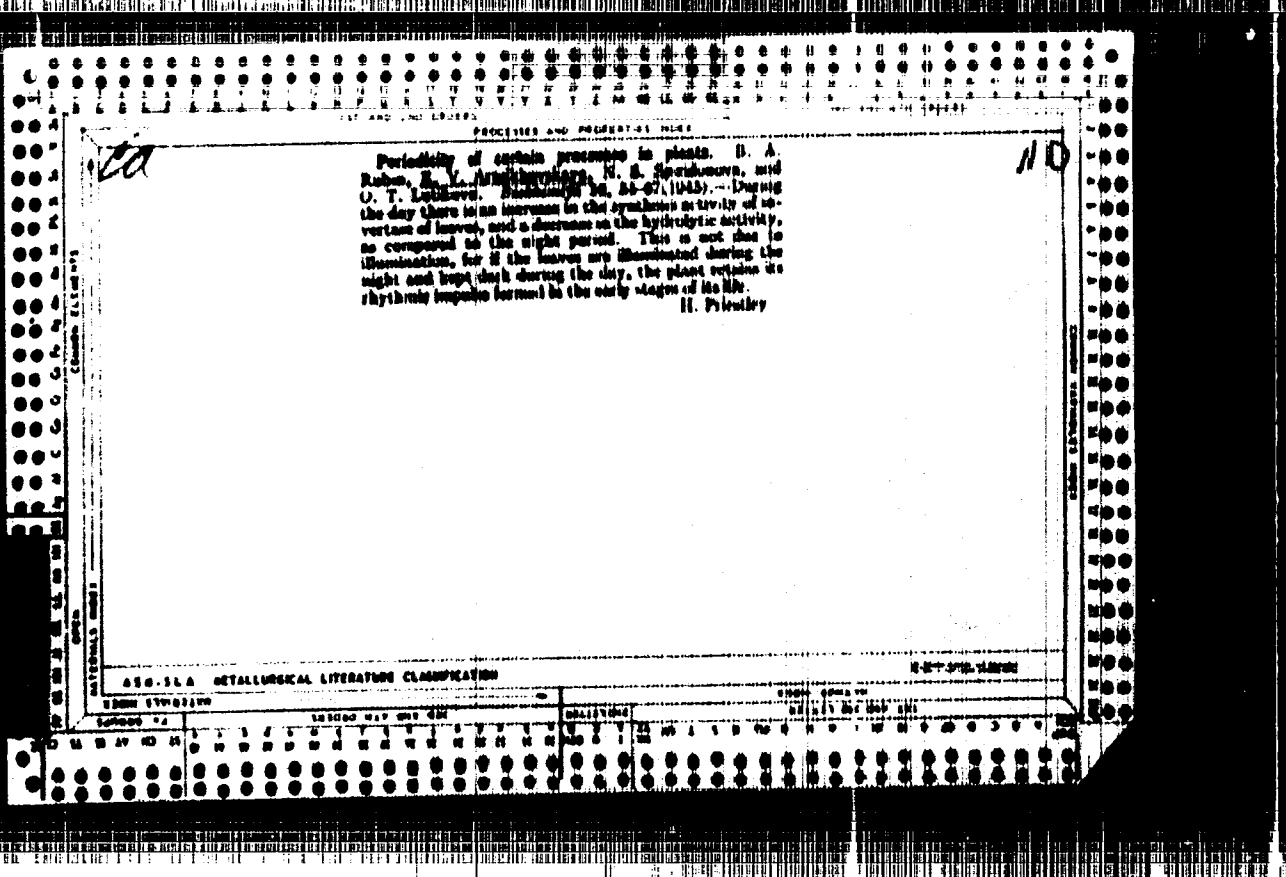


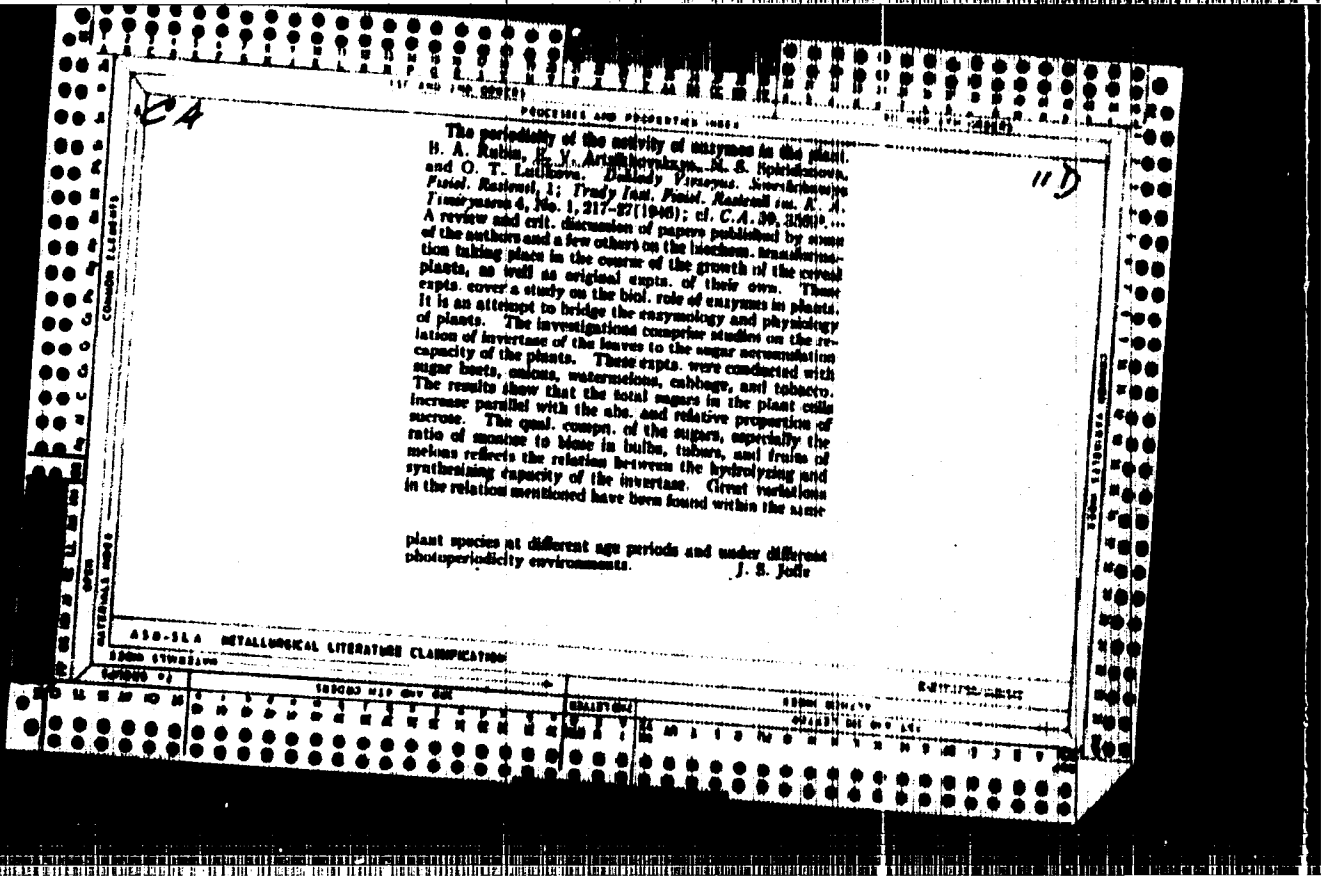


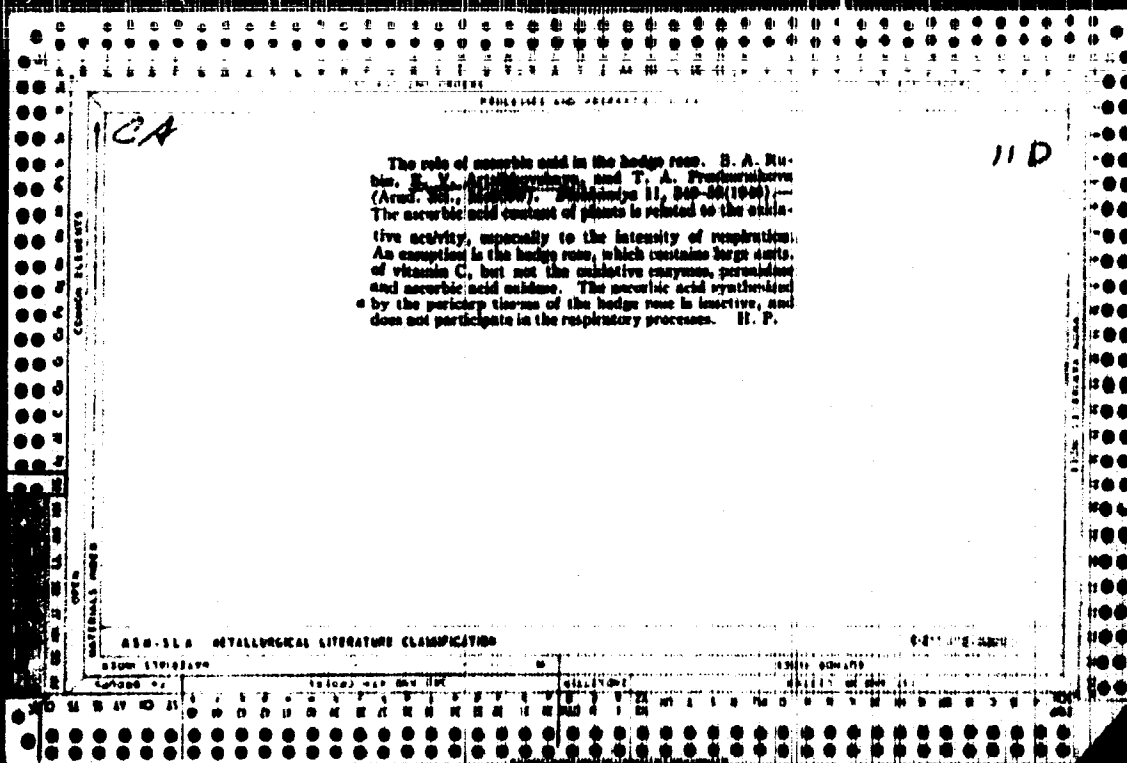












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1959, Vol. 15, No. 1, 1-9
1959, Vol. 15, No. 1, 1-9

"Physiology of the Mutual Relations of Botrytis Cinerum and Cabbage (Brassica Oleracea)," Ye. V. Artaikhovskaya, Institute of Biochemistry, Academy of Sciences of USSR, Moscow, 9 pp

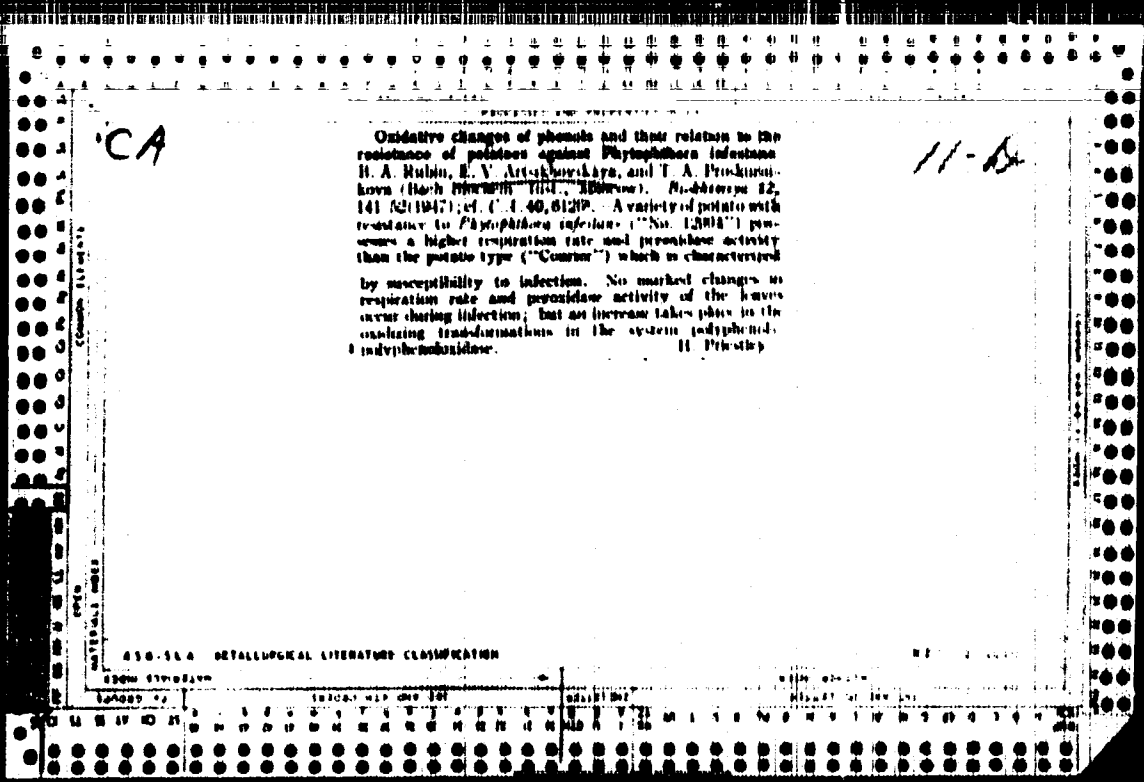
"Mikrobiologiya" Vol. XV, No 1

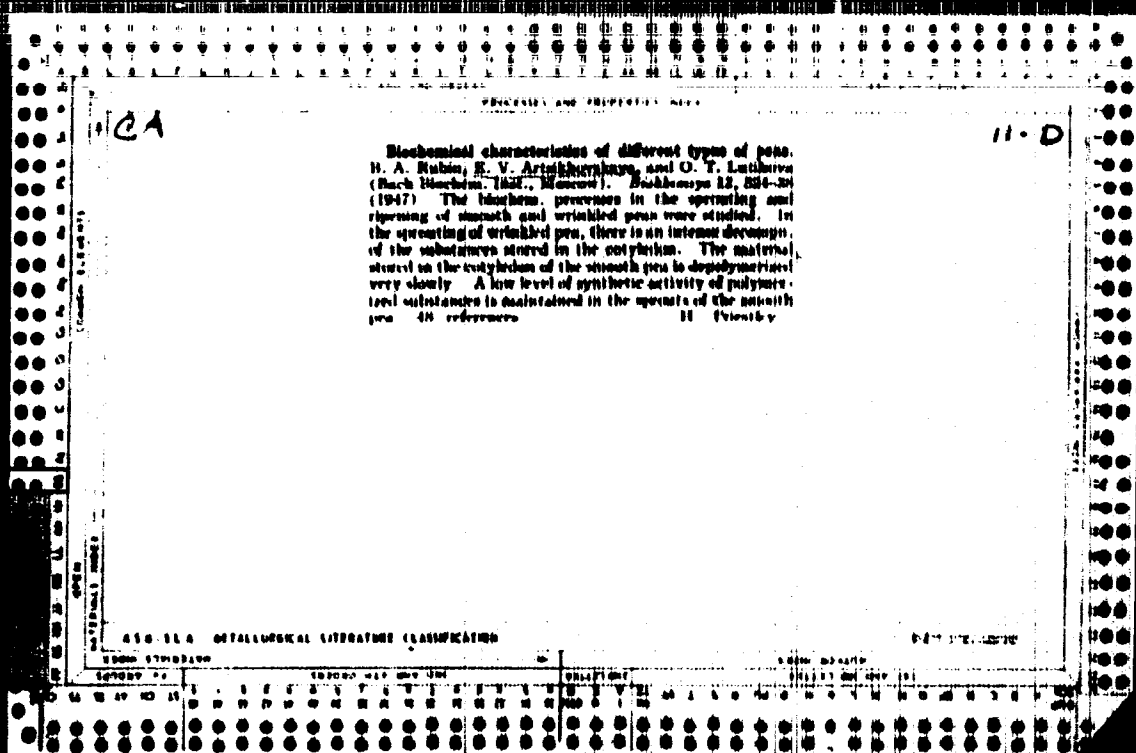
From biochemical study of interaction of tissues of cabbage with toxin of Botrytis cinerea and of anatomical lesions arising in the cabbage leaf, conclusions are drawn that stability of stored cabbage to Botrytis cinerea is based on insusceptibility of its cells to the action of the toxin.

ARTSIKHOVSKAYA, E. V.

RUBIN, B. S., ARTSIKHOVSKAYA, E. V., and PRONKURNIKOVA, T. A. "Peculiarities of Oxidative Exchange in Potatoes in Connection with Resistance to Phytophthora infestans," in Reports of the Scientific-Research Work for 1946, Department of Biological Science, Publishing House of Academy of Science USSR, Moscow, 1947, pp.316-317. 511 Ak144

SO: SIRA SI 90-53, 15 Dec. 1953

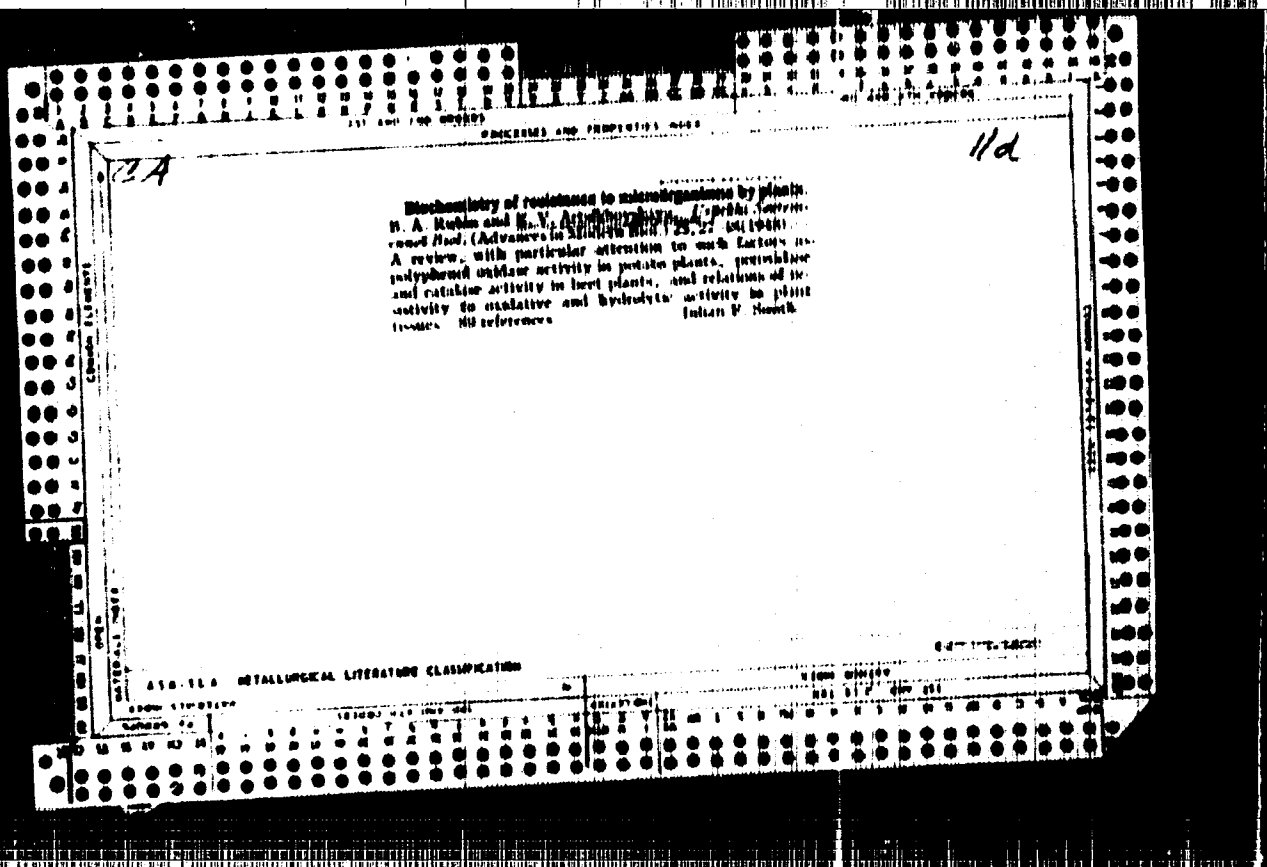




ARTSIKHOVSKAYA, ~~E.~~ V.

and RUBIN, B. A. Biochemical Analysis of Plant Resistance to
Micro-organisms, Publishing House of the Academy of Science, USSR, Moscow,
1948, 86 pp. 464.41 R82

So: Sira SI-90-53, 15 Dec. 1953



ARTSIKHOVSKAYA, YE. V.

USSR/Medicine - Plants, Parasites
Medicine - Microorganisms

Jan/Feb 1948

"Biochemical Resistance of Plants to Microorganisms," E. A. Rubin, Ye. V. Artikhovskaya,
Moscow, 21 $\frac{1}{2}$ pp

"Uspekhi Sovremen Biol" Vol XXV, No 1

Brief collection of data describes the resistance of plants from the standpoint of
internal and biochemical dependence on various substances, and is based on an analysis
of the relation of the plant host to the parasite. Discusses various factors showing the
biochemical resistance of plants to microorganisms.

PA 41T61

USSR/Medicine - Citrus
Medicine - Oxidation

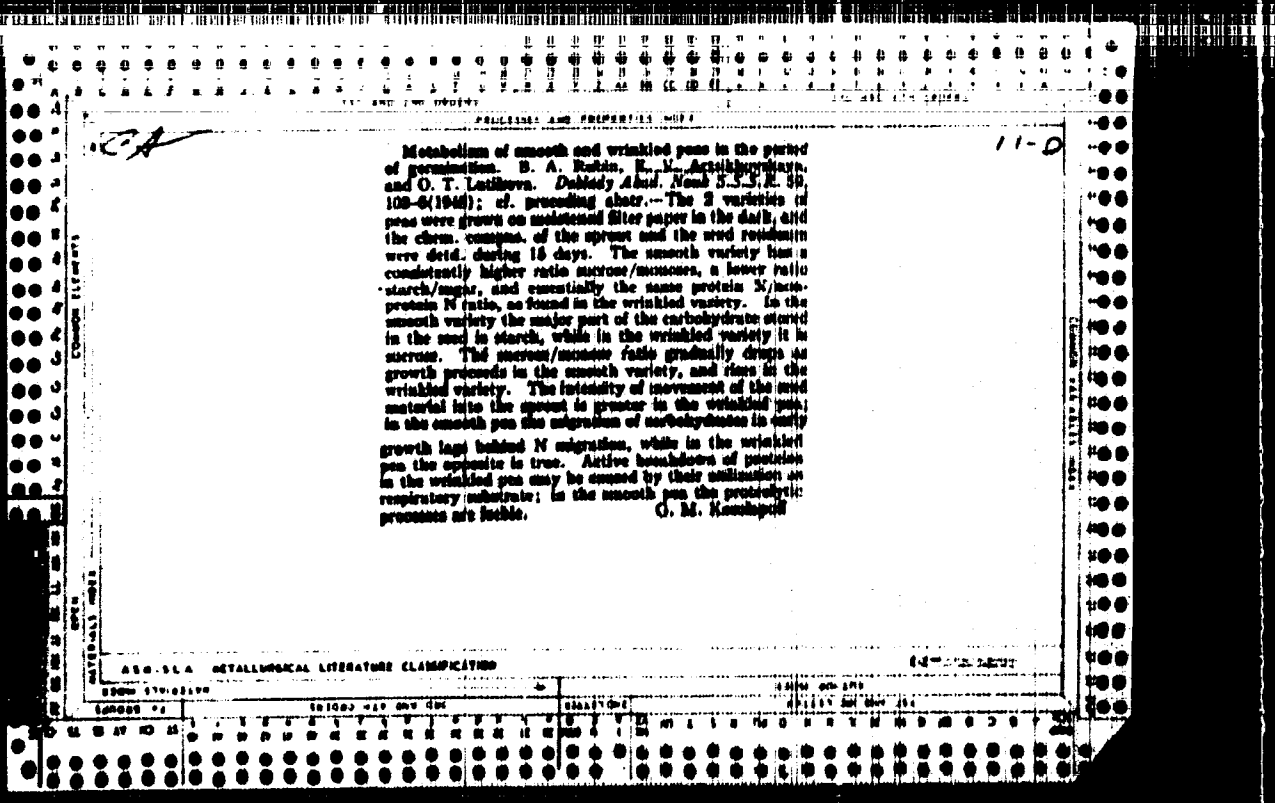
Mar 1948

"Species Peculiarities of the Oxidizing System in Citrus," B. A. Izbicki, Ye. V. Artalkhovskaya, T. M. Ivanova, Moscow Inst Inzheni A. S. Nakh, Acad Sci USSR, 9 pp

"Dokl Akad Nauk SSSR, Nova Ser" Vol LIX, No 8

Gives results of experiments designed to obtain average data on the level of respiratory gas exchange in various tissues of following types of citrus fruits: mandarin (*Citrus reticulata*), orange (*Citrus sinensis*) and lemon (*Citrus limon*). Submitted by Academician A. I. Opariny, 10 Jan 1948

PA47T96



10X
S. SIKHOVSKAYA, Ye. V.

110

Respiratory gas exchange in the citrus plants and its role in the stability of the fruit. M. A. Kaban, I. V. Artyukhovich, and I. M. Ivanova. *Doklady Akad. Nauk SSSR*, 66, 425-426 (1960); cf. *ibid.* 69, No. 4, 1033 (1960); C. I. 63, 3280. The reaction of the tissues of citrus fruit to a mechanical disturbance (cutting) conditioned with active acetabulum was studied by using the microelectrode method (Semenov and Chigirev, C. I. 53, 1001), with lemon, orange, and tangerine. In a tangerine the activation of respiration by cutting is only 20-30%, even in the most sensitive part of the skin (albedo). In the lemon the activation reaches 60% increase in the albedo, while its flavone activation is 2-3 times that of the tangerine. The orange gives intermediate values. Introduction of 1:1000 soln. of toxin (*Penicillium italicum*) into the skin by vacuum infiltration does not displace the normal respiration of the tangerine, while in the lemon the respiration level rises by 16-20% in 4 hrs. and reaches a level of 25-30%, which is 2.2-2.4 times the norm. attained after infiltration with pure water. Since the toxin affects the peroxidase and dehydrogenase activity, the citrus fruit depends for its resistance to infection, etc., on the degree of sensitivity of the oxidative enzyme systems. The stable varieties of citrus fruit have a high level of a dynamic oxidative activity and react rapidly and strongly to a physical stimulus. G. M. Kirovskoff

INST. Biochem. in A. N. Bakh, Acad. Sci. USSR.

550-558 METALLURGICAL LITERATURE CLASSIFICATION

1948, No. 7.

USSR/Medicine- Sucrose
Medicine- Carbohydrates, Metabolism

May 1948

"The Role of Sucrose in the Exchange of Plant Carbohydrates," B. A. Rubin,
Ye. V. Arskikhovskaya, Inst Biochem izeni A. N. Bakh, Acad Sci USSR, 3 pp

"Dok Ak Nauk SSSR " Vol LX, No 5

Previous observations showed that plant starch content is related to sucrose content.
Describes experiments confirming that amount of sucrose utilized is dependent
on amount of fixed fructose contained. Submitted by Academician A. K. Oparin
6 Mar 1948.

PA 68T78

77450

Plant/Medicine - Plants
Medicine - Metabolism, Effects of Light on May 1947

"On Peculiarities of Day and Night Metabolism in Plants," B. Rubin, Ye. Arslanovskaya, V. Sokolova, Izv. Akad. Nauk SSSR Ser. Biol., 1947, No. 1, 1-10.

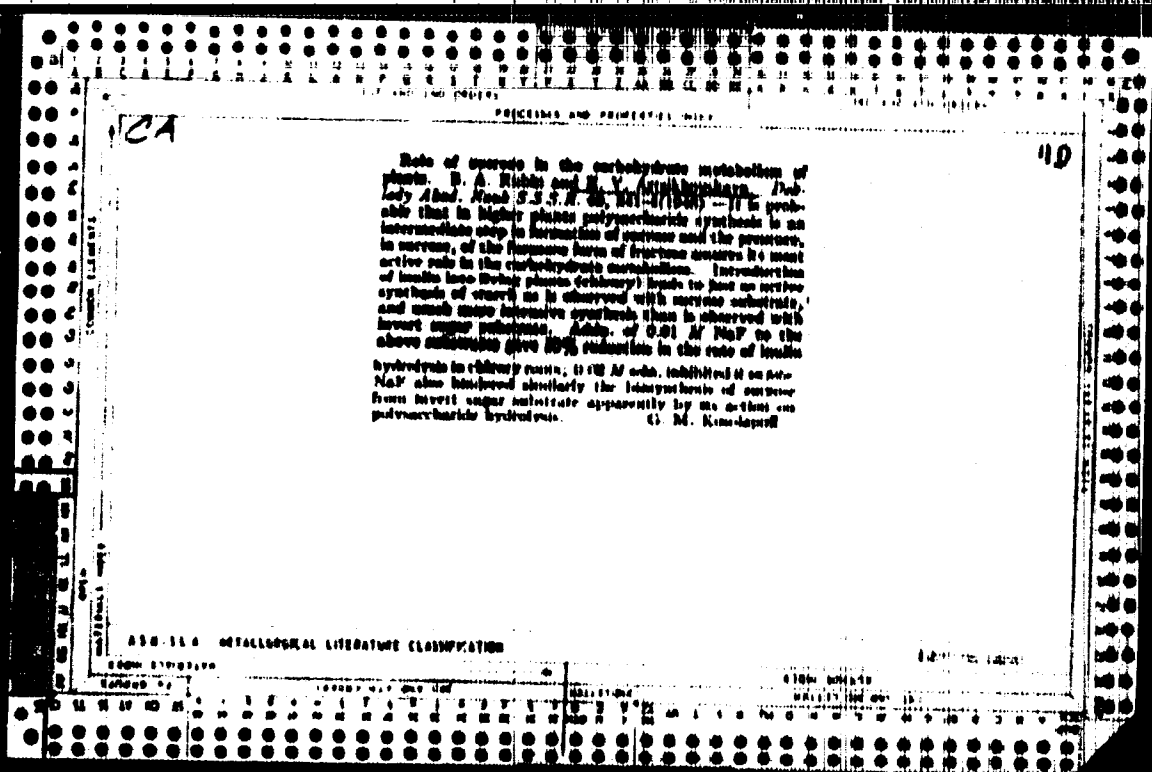
"Plants and Their Growth" Vol. IX, No. 1

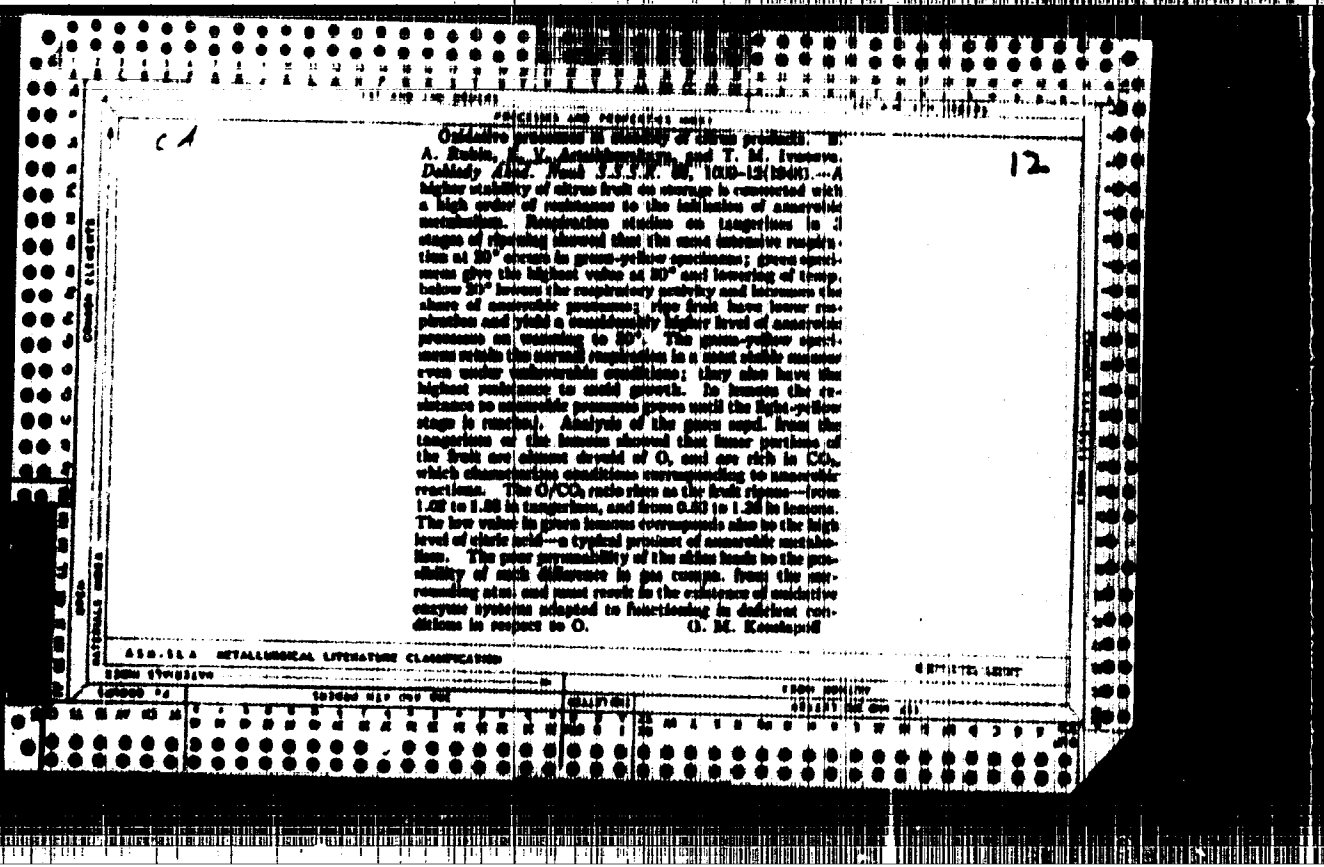
Optimum operating temperature of enzymes which control hydrocarbon changes in plants is not constant. Optimum also in course of growth of organisms, direction of these alterations reflecting degree of adaptability of plant to one of most important factors of external medium, such as temperature.

Plant/Medicine - Plants (Fungi) May 1947

Experiments are described and graphs are plotted showing synthesis and decomposition of enzymes against temperature (day and night). Submitted 22 May 1947.

77450





CA

42

Oxidative processes and their role in the biology of various plant organs. I. Role of oxidative processes in phenomenon of stability of fruit of citrus type during storage. B. A. Rubin, P. A. Atkushonkova, and T. M. Ivanova. *Trudy Khimicheskoi Akademi, Novosil No. 1, 5 (1948), Sec. 1, 43, 234.* II. Respiratory gas exchange in citrus fruit in connection with the progress of fruit ripening. *Ibid.* No. 11. During the ripening of fruit (orange, lemon) almost up to harvesting, the main role is performed by O₂ falls to an oxidase whose prosthetic group contains platinum with Fe or Cu. In the following stage (after harvest) aging, the respiration is carried largely by oxidase stable to CN. The change of the oxidase system shows up also in the temp. effects. Thus raising the temp. of green fruit lowers the respiratory coeff. which reaches its min. at 20°C, while in the fruit a lowering of temp. causes a decline of the respiratory coeff. although the level of respiration remains much more stable than is the case for the green fruit. G. M. K.

CA

110

Effects and properties of cyanide

Changes in the respiratory activity of fruit (citrus) in the course of development. E. V. Artyukhova and H. A. Rubin. *Doklady Akad. Nauk S.S.S.R.* 64: 210-211 (1948).--Studies on tangierines and lemons, involving the measurement of both oxidase types by the effect of KCN on tissue respiration, showed that the activity changes in the course of development. In the skin of the tangierine the CN-sensitive activity is max. at ripening and comprises 72-8% of total respiration, after which point this phase of activity declines sharply, while the activity unaffected by KCN rises and, at the time of decline of the lactate, comprises 64-71% of total respiration. In the lemon the results are analogous, but the decline of the lactate begins somewhat earlier. Both enzymes are most active in the green-yellow stage of the lemon. Particularly a great drop of CN-sensitive respiration is observed in the mass of the lemon after the yellow stage is reached.

G. M. Kozlovskii

ADD-51A METALLURGICAL LITERATURE CLASSIFICATION

GROUP	CLASSIFICATION	DESCRIPTION	FILE NUMBER
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
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21	22	23	24
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77	78	79	80
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85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

110

Physiological role of various groups of plant oxidases.
 B. K. Ananikhin, N. A. Rubin, and T. M. Ivanova.
 Doklady Akad. Nauk S.S.S.R. 69, 1021 (1949); cf.
 C. I. 48, 4731c. The seasonal activity of enzymes of
 tracheal respiration and of metal-containing enzymes in
 the stems of linden and larches is given by sets of matrix
 image curves. The former enzymes show a gradual rise
 with passage of winter and onset of spring, while the latter
 group give a correspondingly declining curve. A similar
 study of orange stem under conditions of (1) aridity, (2)
 infiltration, (3) saturation, (4) metal with 30% CO₂, and in-
 filtration with N₂ gave different reactions from the regula-
 tory enzymes sensitive or insensitive to KCN: conditions
 favouring increased general tissue respiration enhanced ac-
 tivity of metal-const. enzymes and vice versa. Condi-
 tions under which water metabolism is disturbed, such as a
 preliminary 6-day wilting which reduces general respira-
 tion, lead to repression of metal-const. enzymes and ac-
 tivation of the tracheal respiration enzymes. The differ-
 ences are not only quantitative, but qualitative and are ascribed to
 fundamental differences in the substrates. G. M. K.

Inst. Biochem. in A. N. Bakh. Acad. Sci. USSR.

14

The adaptation significance of the respiratory metabolism in citron. H. V. Arshinovskaya and R. A. Kuznetsov. *Dokl. Akad. Nauk SSSR* 71: 217-219 (1960). Cf. C. C. 43, 256, 44, 673d. Since the level of fruit (citron, orange) respiration is adapted to the temp. regime of the surrounding medium (20-25°C), the variation must be connected with temp. course of the activity of the enzyme systems. This is well demonstrated by data of the activity of uninhibited and NaN₃-inhibited specimens (orange, lemon). Thus, lemon at 17° shows 44% uninhibited respiration, while at 21° this is but 31%; in an orange these are 46% and 22% resp. In cooling the temp. from 17° to 21° the level of NaN₃ respiration is activated much more than the residual (uninhibited) respiration; the increase of 21° results in a 18.5-fold rise of label respiration, while the stable respiration rises only by 1.2 fold, in citrus, with oranges, in lemon these are 11% and 8.0% resp. In lemon the charged effect occurs in 21-23° range. G. M. Kozlovskiy

Participation of various cellular groups in production of
 systems of cells. B. A. Kuzin, R. V. Agikhovskaya, and
 T. M. Ivanova. Doklady Akad. Nauk S.S.S.R. 191: 101-103
 (1968).—Study of storage-stable and storage-sensitive
 varieties of beans by the Warburg technique, with
 records and photo-tissue spectrometry showed that the ex-
 position to cold injury (anoxia) varies with time. From
 September on with increased total respiration the rate of
 response is weak until the time of total ripeness is reached
 when the response rises sharply. The respiration increases
 in this late stage of growth is largely due to the CN-sta-
 sensitive factor. Only in November (November total
 ripening) does the CN-sensitive system enhance a sharp
 temporary rise. The less stable leaves variety display a
 lower respiration rate than the stable one. Infiltration
 with the toxin from *Phytophthora blight* leads to activation
 of CN-stable respiration and decrease of CN-sensitive factor
 in the storage-stable variety; with the other variety there
 is but a slight effect.

G. M. Kozlovskiy

CA

112

Organic peroxide as a possible source of oxygen in
respiration of some plant tissues. E. Y. Aristovskiy,
and B. A. Rubin. *Doklady Akad. Nauk S.S.S.R.* 140:
112 (1960).--Data of org. peroxide in tissues of citrus fruit
in various stages of development showed that in the skin the
peroxide appear only near ripening period, while in the
flesh of the fruit the max. amt. is found in green fruit; in all
tissues max. peroxide level is reached later than the full
ripening; highest levels are found in the skin albedo layer
and in the tissues of the flesh of the fruit. The amt. of
peroxide far exceeds that of free O₂ (10-15 times), both show-
ing parallel variations, affected similarly by exposure to O₂-
rich atm. The peroxide form in flavo cells and are
gradually transported to the inner portions of the fruit
(only flavo and albedo cells are capable of synthesizing
org. peroxide; the inner tissues are incapable of this syn-
thesis. C. M. Knocheloff

CA

Oxidation processes and their role in the biology of various plant organs. III. The role of peroxide compounds in the supply of tissues of citrus fruit with oxygen. B. V. Artamonov, B. A. Rubin, and T. M. Ivanova (K. V. Baik-Balchik, Inst. Moscow), *Biokhimiya Plodov i Ovezhekol*, *Sbornik 2*, 5-27 (1961); cf. *CA* 46, 2822b. —The outer coatings of lemons, tangerines, and oranges are impermeable to O₂ since O consumption by the lower tissues proceeds constantly, the supply must be by indirect paths, most probably by the way of dry peroxide. The source of the latter rises in passing from the outer to the inner parts of the fruit, and is much higher than amount of O₂ in given tissues. The tissues of the rind of the fruit, which are high in peroxide do not normally synthesize the peroxide; these are formed in the outer coatings, particularly in the flavedo. However, fruit kept 24 hrs. in pure O₂ show a 2% increase of the O content in their internal gas spaces, with a similar rise of CO₂; after a 48-hr. exposure the O content declines again to near-normal level but CO₂

is doubled, indicating a state of O-saturation. Varietal infiltration of O-rich atm. results in 6% in a sharp rise of O content and a drop to CO₂ after 24 hr. However, O content shows a steady drop while CO₂ rises after 24 hrs. Tissues with an earthy orange show that the concentration with the surrounding atm. is maintained only in the region at the site of the fruit stem and the innermost rind, was distributed from it only by the skin vessels; paths for distribution of gases, however, do not involve the cuticle. Seals coating of skin with impermeable plastics failed to alter the gas exchanges described above. The peroxide content is not time-constant, but shows a sharp max. (in lemons) in April in the rind and a more diffuse max. in March in the fruit core. Skin of green fruit is devoid of peroxide, but these must contain small amounts of them. In O-rich atm. (pure O₂) the fruit skin increases its peroxide content within 24 hrs., especially in the flavedo, after which a steady decline sets in; the inner parts of the fruit show increased peroxide content only some 24 hrs. later followed again by a moderate decline. The albedo shows a rise of the peroxide after some 48 hrs., after which there is a steady drop to 25% of normal level. kept in anaerobic conditions the fruit specimens show a rise of peroxide in the flavedo after a 24-hr. exposure, explained by rapid absorption of O₂ from exposure to normal atm. necessary for the analysis; a 48-hr. anaerobic exposure, however, causes such depletion that the analytical outcome is not sufficient to study the O content

over

and the peroxide level is subnormal. The albedo shows subnormal peroxide level after any anaerobic exposure; the rest of the fruit shows this only after 48-hr. exposure. A CO₂-rich atm. does not alter the peroxide content in fruit meat, in 48-hr. exp. These changes by cutting across a steady rise of peroxide in the albedo, very marked in the albedo, and very little change in the internal meat of the fruit. If the tissue damage is done in conjunction with 0.5% of KCN used as a covering for the albedo then, the content of peroxide was the same as found in albedo without KCN. IV. Characterization of the respiratory metabolism of citrus during ripening period. 7/24/51-52. --In the course of ripening of citrus fruit (lemon, tangerine, orange) the O₂ supply to the tissues is restricted and an

increasing role is played by oxidant that do not contain heavy metals, while the activity of Fe and Cu peroxide is restrained. The effect of increase in temp. on intensity of respiration is to raise the latter if it is accompanied by water-bearing oxidant, while the residual respiration is apparently unaffected. Hence the shift in the oxidative system during ripening is an example of adaptation of the fruit to surroundings, making possible a maintenance of a vital function under low-temp. conditions. During ripening the protective system also change. In the ripening fruit the action of polymeric peroxide or mechanical stress decreases bringing into play the metal-bearing oxidant, while before ripening and in storage of ripe fruit, the residual oxidant are operative. A brief treatment of ripe fruit with high temp. (50-60°) seems to aid their storability; an exposure to high CO₂ content serves a similar purpose. Both treatments decrease the activity of the residual oxidant which are more stable under unfavorable conditions. 11. 24. 51.

CR

11-1

Temperature regulation of respiration in *Hevea* clones
 V. K. Nakhova and M. Y. Artyukhovich, *Doklady
 Akad. Nauk S.S.S.R.* 84, 177 (1953). Specimens kept
 at 20° show less increase in the rate of respiration in equal
 runs in which temp. is varied from 0° to 20° than in others
 by cultures grown at 2°. Thus the temp. acts as a stimulus
 or irritant rather than as an adaptation factor. The ir-
 ritant effect is greater with younger cultures than with older
 ones. The differences of temp. adaptations in higher plants
 are discussed. (1) M. Koshchikov

CA

12

Formation of ethyl alcohol and acetaldehyde in apple skin.
 M. V. Anisimovskiy and V. K. Kabanov (A. S. N. Pash Institute, Moscow). *Doklady Akad. Nauk S.S.S.R.* 64, 762-4 (1962).—The content of EtOH and a slight rise in the max. rate of growth of the fruit. In the case of the apple skin by 100% from August to January. In the case of the apple and by 207% in the skin. AcH content rises with ripening, the level remaining well below that of EtOH. As full ripeness the AcH level rises sharply and in storage in midwinter the increase may reach 74% of EtOH. By January the AcH content begins to decline in the meat, but remains nearly constant in the skin. The lowered (1) content of the surroundings almost has no effect on the content of EtOH, indicating anaerobic nature of its formation. AcH content rises as the O₂ content in the air is increased, however, the effect shows up in the skin and not in the meat. The formation of the anaerobic products is enhanced by raised temp. (range of 11-20° studied). The temp. coeff. for EtOH formation is nearly 1; that of AcH ranges from 1.2 to 1.3.

G. M. Kondapoff

ARTSIKHOVSKAYA, Ye. V.
RUBIN, A. A.; SKOCLOVA, V. Ye.;
ARTSIKHOVSKAYA, Ye. V.

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SO: MLRA November 1952

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IVANOVA, T. M.; RUBIN, B. A.; ARTSIFHOVENIA, E. Y. & SOROTOVA, V. YE.

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Role of separate oxidases in the respiration of apples. Dokl. AN SSSR 85, No. 5, 1952.

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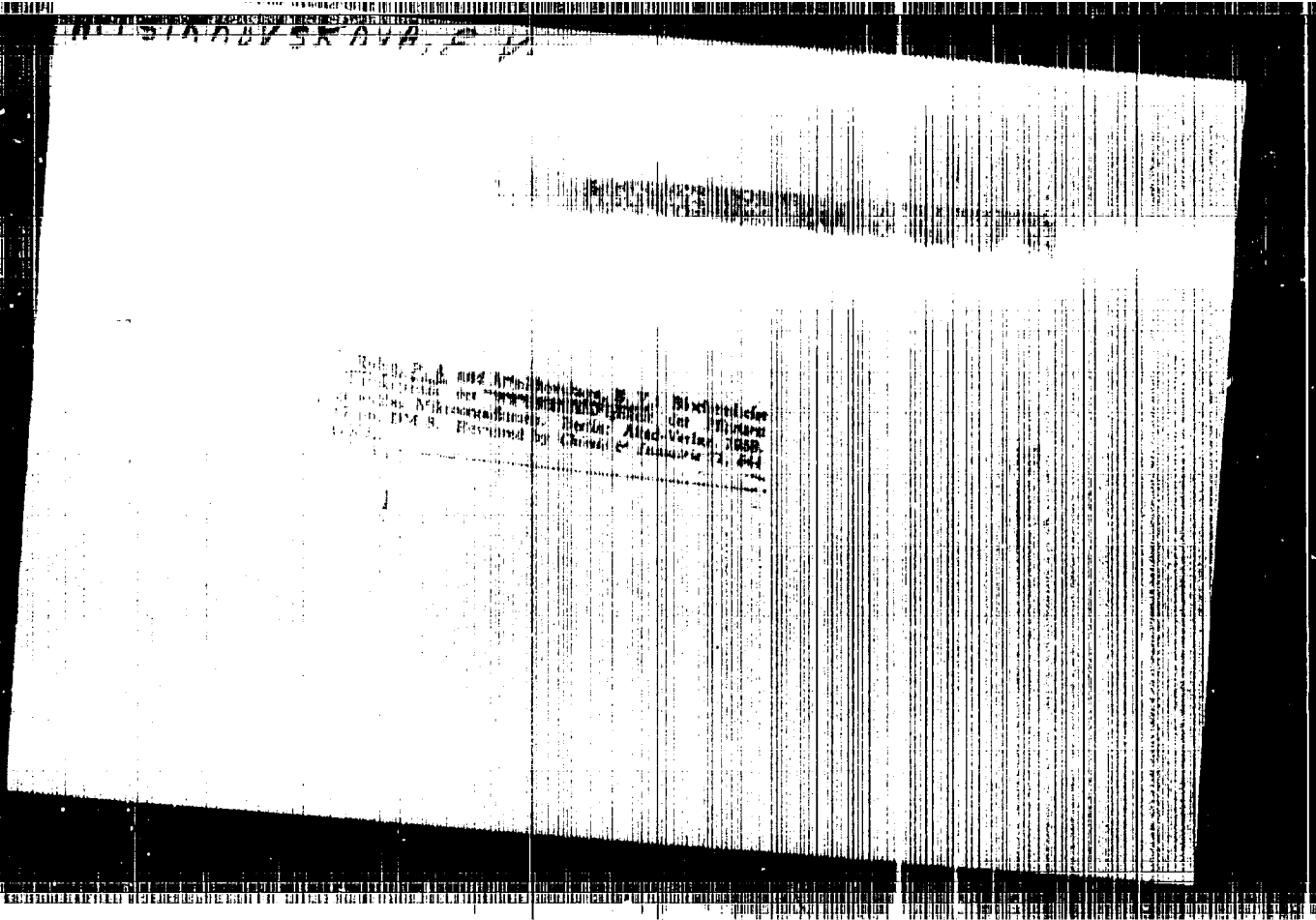
1. HURIN, B. A.; SOKOLOVA, V. Ye.; ARTSIKHOVSKAYA, Ye. V.

2. USSR (600)

4. Apple

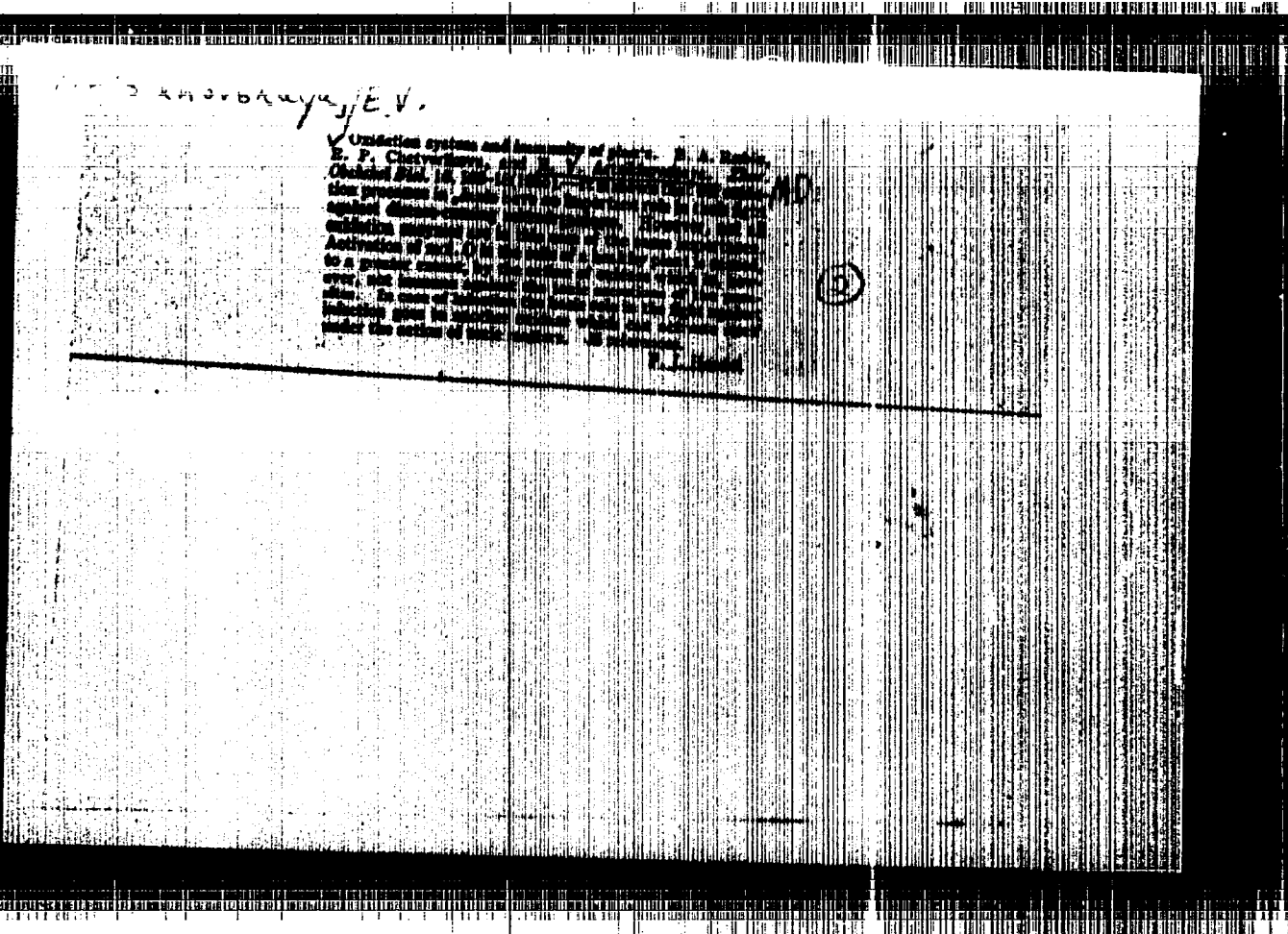
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Plant respiration as an adaptation function. *Usp. sov. biol.* 37 no.2:
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Name: ARTSIKHOVSKAYA, Yelena Vladimirovna
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HUBIN, Boris Anisimovich; ANTSIKHOVSKAYA, Yelena Vladimirovna;
OPARIN, A.I., akademik, otv.red.; SHAROVATOVA, I.I., red.
1st-vs; YEGOROVA, N.F., tekhn.red.

[Biochemistry and physiology of immunity in plants:] Biokhi-
mia i fiziologiya immuniteta rastenii. Moskva, 1st-vo Akad.
nauk SSSR, 1960. 350 p. (MIRA 14:2)
(Plants—Disease and pest resistance)

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"The Nature of the Toxic Action of *Botrytis cinerea*."

Report presented at the 5th International Biochemistry Congress,
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Biochemical mechanisms of the disturbance of normal pigmentation of
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Some problems in the biochemistry of plant immunity. *Usp. biol.*
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ARTSIKHOVSKIY, A.V.

KOLCHIN, B.A.; ARTSIKHOVSKIY, A.V., doktor istoricheskikh nauk, professor, ret-sensent; KURULOV, L.V., kandidat tekhnicheskikh nauk, ret-sensent; KOSTOMAROV, V.M., kandidat tekhnicheskikh nauk, redaktor.

[Metalworking techniques in ancient Russia] Tekhnika obrabotki metalla v drevnei Rusi. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1953. 158 p. (METRA 7:6)

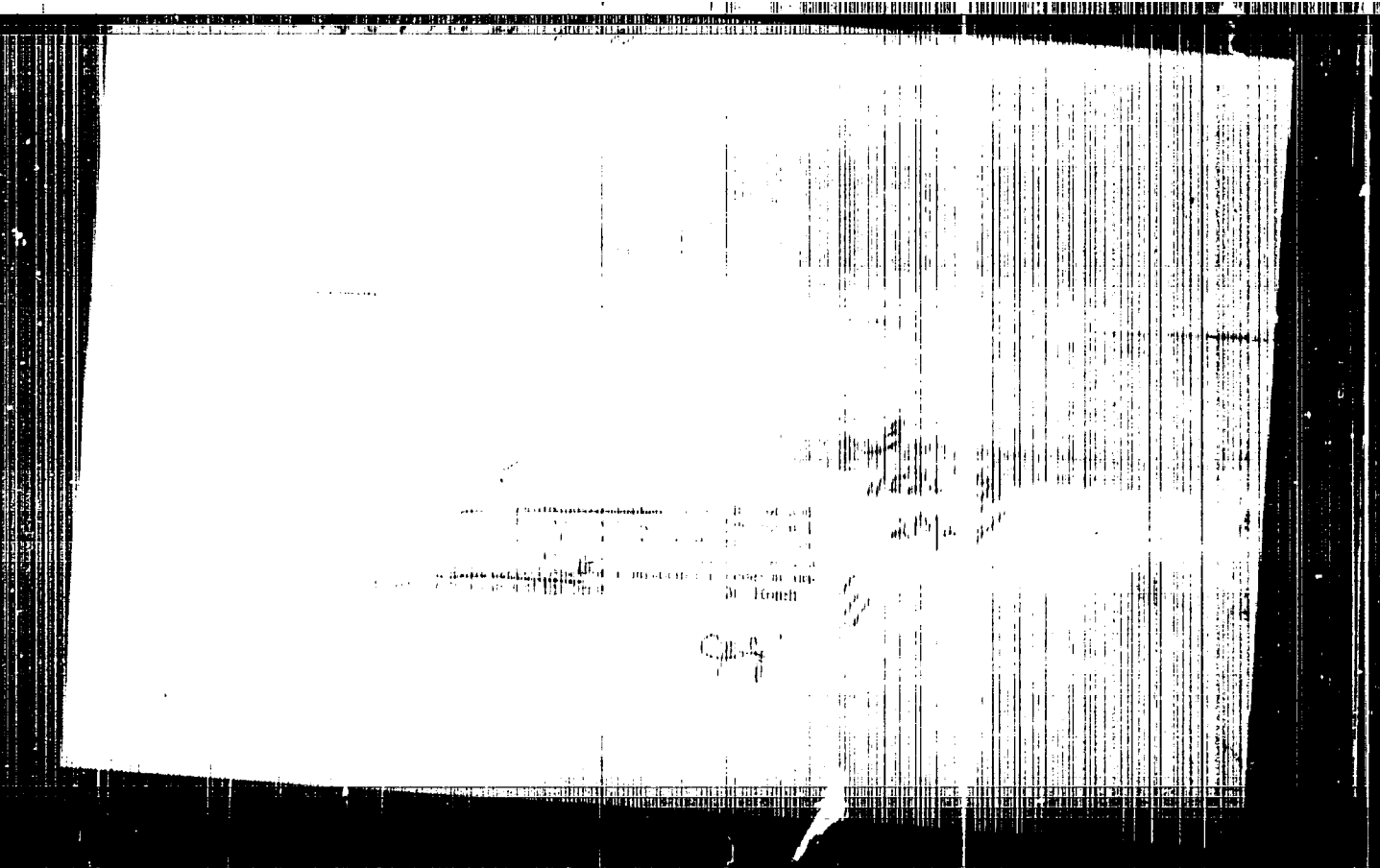
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"Donnees archeologiques sur la question variegue."

Report submitted to the 6th Intl. Cong. of the Intl. Union of
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ARTSINOVICH, A. N.

Universal adjustment of turret lathes Moskva Gos.
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99 p. (52-45905)

TJ1218.A7

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2105 Artsimovich, A.N.

7. Tekhnologiya Metallov

Zadalka Rakovin I Drukov V Litve 12 Splavov Tsnetiyykh Metallov. M., 1954.
8 s. 25 sm. (Akad. Nauk SSSR In-T Tekhn. - Ekon. Informatsii. Periodich.
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Informatsiya. Tema No. 42). 1.160 SKZ. B. Ts. Na Ubl. Avt. No Ukazn.-
(54.55537)

621.3153 t 621.315.2 t 621.793.7

SO: Knishnaya, Setopis, Vol. 1, 1955

PHASE I BOOK EXPLOITATION

121

AUTHOR: Artsimovich, A.N.
TITLE: Special Technological Processes in Instrument Manufacture
(Spetsial'nyye tekhnologicheskiye protsessy v priborostroyeni
PUB. DATA: Gosudarstvennoye soyuznoye izdatel'stvo sudostroitel'noy
promyshlennosti, Leningrad, 1957, 236 pp., 5,500 copies.
ORIG. AGENCY: None Given
EDITOR: Isayev, F.A.; Responsible Ed.: Kashin, N.V.; Tech. Ed.:
Kontorovich, A.I.
PURPOSE: The book is intended as a textbook for students in radio
engineering and electro-mechanical technical schools.
It may be useful to technologists and foremen taking courses
to increase their qualifications and also helpful to engineers
and technicians employed by instrument manufacturing
enterprises.
COVERAGE: The book describes special technological processes which
may be employed by plants producing instruments and
equipment. A significant portion of the book is devoted
to the electrical wiring of equipment, methods of marking
electrical components, connecting wires and cables.

Card 1/7

Special Technological Processes in Instrument Manufacture (Cont.) 121

Sufficiently full treatment is given to soldering and brazing, and to modern methods of brazing such as brazing in protective hydrogen atmosphere, high frequency induction brazing, and ultrasonic brazing (aluminum and aluminum alloys). Separate chapters are devoted to the technology of producing ceramic parts, to casting of nonferrous alloys, to investment casting, glueing of metals and nonmetallic materials, etc. The text is illustrated with detailed data, technical specifications, manufacturing instructions, standards, etc. A list of official specification instructions used in the book is given at the end. There are no references and there is no mention of personalities.

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Card 6/7

Special Technological Processes in Instrument Manufacture (Cont.) ¹²¹

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AVAILABLE:	Library of Congress	(TK153 .A72)
Card	7/7	

~~ARTSIMOVICH, Aleksandr Nikolaevich; KASHIN, N.V., otvetstvennyy redaktor;~~
~~BAIBV, V.A., redaktor; KONTOROVICH, A.I., tekhnicheskiy redaktor~~

[Special technological processes in instrument manufacture] Spetsial'-
nye tekhnologicheskie protsessy v priborostroeni. Leningrad, Gos.
soiuznoe isd-vo sudstroit. promyshl., 1957. 262 p. (MIRA 10:9)
(Instrument industry)

ARTSIMOVICH, D.I.

Some spectral regularities of cuprous-oxide back-effect photocells.
Dop. ta pov. L'viv. un. no.7 pt.3:241-243 '57. (MIRA 11:2)
(Photoelectric cells)

ARTSIMOVICH, D.I.

~~Some inertia properties of cuprous-oxide back-effect photocells.~~
Dop. ta pov. L'viv. un. no.7 pt.3:243-245 '57. (MIRA 11:2)
(Photoelectric cells)

ARTSIMOVICH, D.I.

Inertia properties of cuprous-oxide back-effect photocells
prepared under reduced pressure of the oxidizing medium. Dop. ta
pov. L'viv. un. no.7 pt.3:245-248 197. (MIRA 11:2)
(Photoelectro cells)

124-58-6-7017

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 107 (USSR)

AUTHORS: Artsimovich G. V., Kirillov, V.A.

TITLE: An Optical Method Used With High-speed Photography to Study Stress Distribution in Impact-loaded Materials (Primeneniye opticheskogo metoda v sochetanii s vysokoskorostnoy fotografiruyemykh dlya izucheniya raspredeleniya napryazheniy v materiale pri udarnykh nagruzkakh)

PERIODICAL: Izv. Dnepropetr. gorn. in-ta, 1957, Vol 30, Nr 2, pp 109-118

ABSTRACT: The purpose of this study was to determine the stress distribution that develops in rock subjected to the action of a cutting tool and to ascertain the variations that occur in the character of the stress distribution when different types of cutting tools are used and when the relationship of the static and dynamic forces applied to the cutting tool is varied.

(Reviewer's name not given)

1. Rock--Stresses 2. High speed photography--applications
Card 1/1 3. Cutting tools--Performance

ARTSINGOVICH, G. V., Cand Tech Sci — (diss) "Experimental Research and Production Testing of the Submersible Hydraulic Impact Machine DGI for the Boring of Deep Exploratory Wells." Dnepropetrovsk, 1960, 15 pp (Dnepropetrovsk Order of Labor Red Banner Mining Institute im Artem) 150 copies, no price given (KL, 21-60, 122)

FILIPPOVA, Ye.S.; YASOV, V.G.; MUSIYENKO, I.A.; ARTSIMOVICH, G.V.;
EPSHTEYN, Ye.F., prof., doktor tekhn.; ~~NIKOLAI~~ USENTO, A.P.;
SIRIK, V.F.; SMIRNOV, L.V., otv. red.; KOSTON'YAN, A.Ya.,
red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Combination drilling of holes with hydraulic drills] Udarno-
vrashchatel'noe burenie skvashin gidroudarnikami. Moskva,
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