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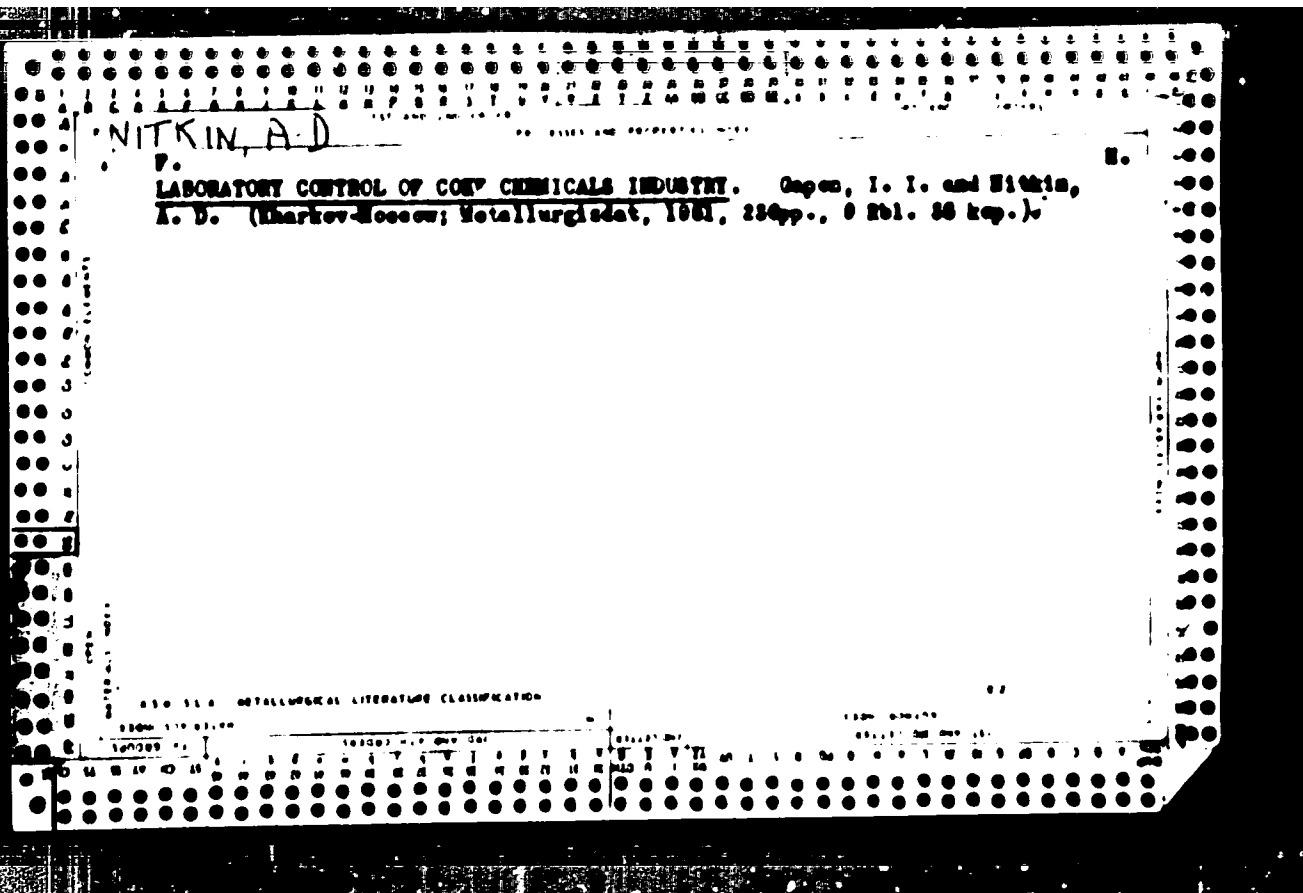
And (entirely) ...
... ..

1. Z. Zakladu Ont.
Soprodite (... ..).

1. G. KIKIENI (MI) MIENI, Inera, ... KIKIENI, ...

A modified page for ... 427-430 ...

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450 31.4 METALLURGICAL LITERATURE CLASSIFICATION

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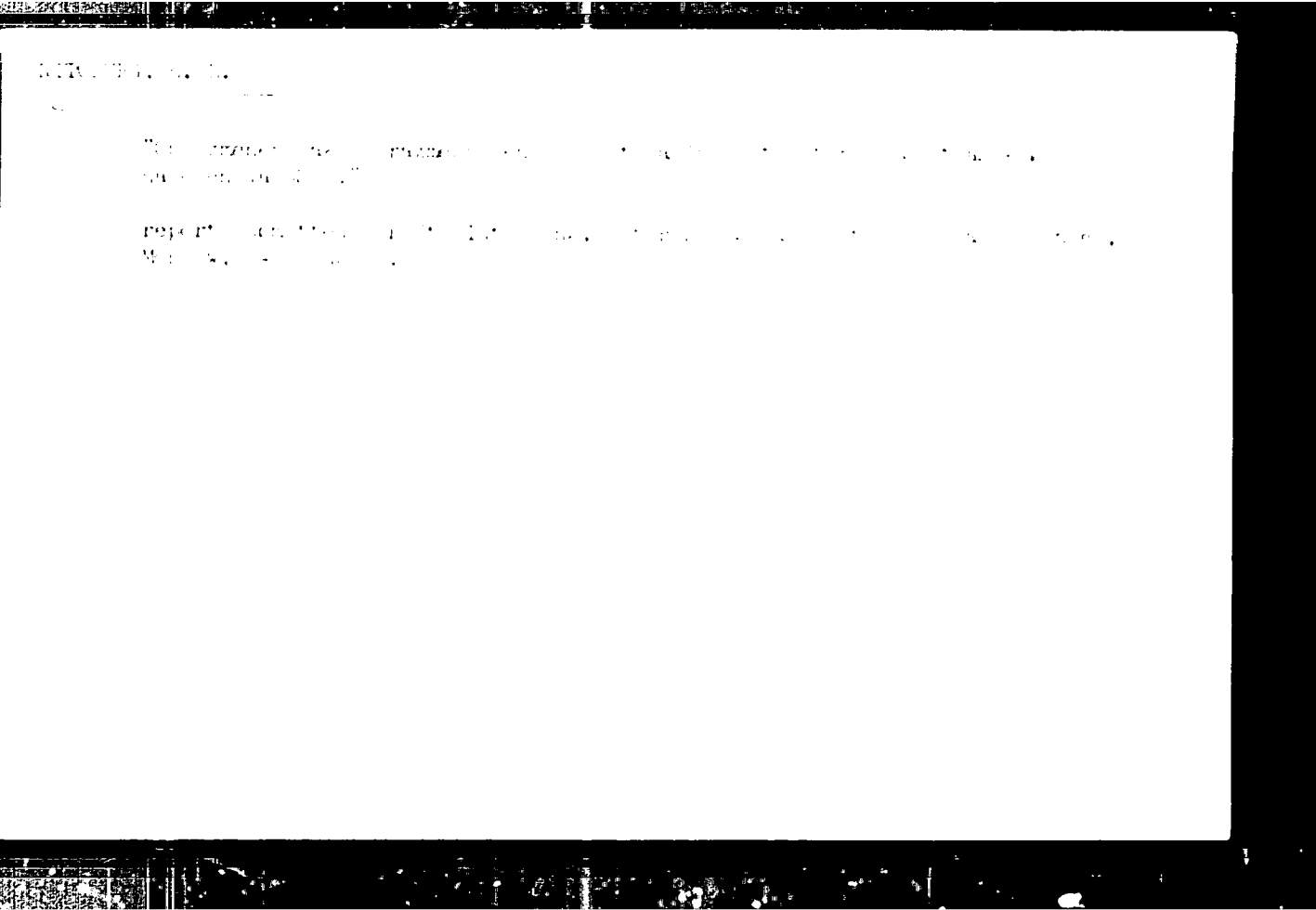
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Vladimir Lyudvigovich; KAPLANSKIY, Ye.F., redaktor; KAMOLOVA, V.M.,
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[Fish refrigeration ships] Rybopromyshlennye refrizheratornye суда.
Pod red. V.L.Survillo. Leningrad, Gos.soius.isd-vo sudostroit.
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RESEARCH AND DEVELOPMENT 87/174

International Congress of Refrigeration. Moscow, 1973

Research Institute of GSS (Collected Soviet Reports) Moscow, Gostorgizdat, 1974. 234 p. Soviet city trademark. 1,000 copies printed.

8. (Title page) G. S. Krasovskii, M. (Dudkin head) S. V. Chibrikov

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INDEX This collection of articles is intended for those interested in the problems of food refrigeration.

CONTENTS The collection contains 24 reports which were submitted at the meeting of the 2nd, 3rd, and 7th Commissions of the International Institute of Refrigeration. The reports were held in Moscow, September 3-6, 1974, and were abstracted by 240 Soviet specialists and 115 representatives from other countries. The 75 reports discussed at this meeting cover such broad areas as the construction of the cooling of refrigerating installations, the use of ammonia-type refrigerating devices, heat-releasing food freezers, the theory and technique of rapid cooling and freezing of meat and fish, the use of utilization in the cold storage of food, and the operation of refrigerators and cooling systems. A complete account of the proceedings of this meeting was published by the International Institute of Refrigeration in 1975. Its proceedings are not cited. References follow the end of the articles.

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3. **AMMONIA** and **S. P. PROKOPYEV**. Designing ammonia-type heat exchangers for food products in liquid and phase form 179

4. **AMMONIA**, A. S., and S. P. PROKOPYEV. [All-Chain Scientific Research Institute of the Refrigeration Laboratory (head A. I. Sklyarov)]. Heat-Exchanging Ammonia-Type Apparatus with Intensive Air Flow for Fish Freezing 189

5. **AMMONIA**, S., and S. P. PROKOPYEV. [All-Chain Scientific Research Institute of the Refrigeration Laboratory (head A. I. Sklyarov)]. Convective Ammonia-Type Heat-Exchanging Apparatus for Freezing Food Products 199

6. **AMMONIA**, S. A. [Soviet Institute for Proprietary Refrigerating Equipment]. Ammonia-Type Apparatus for the Design and Planning of the Heat Laboratory Establishment [Proprietary Ammonia-Type System with Overhead Ammonia Supply] 204

7. **AMMONIA**, A. P. [All-Chain Scientific Research Institute of the Heat Laboratory (head A. I. Sklyarov)]. Heat-Exchanging Ammonia-Type Apparatus for Freezing and In-Freezing Food Products in Bulk 209

MARTYNOV, Mikhail Stepanovich; MITOCHKIN, Aleksandr Yefimovich;
GIMPLEVICH, Semuil L'vovich; CHICHKOV, N.V., red.; KISILEVA,
A.A., tekhn.red.

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Aleksandr Yefimovich, inzh.; POPYRIN, Ivan Andreyevich,
inzh.; SURVILLO, Vladimir Lyudvigovich, doktor tekhn. nauk,
prof. [deceased]; KAN, A.V., inzh., retsenzent; TERENT'YEV,
G.B., kand. tekhn. nauk, retsenzent; KAZAN'V, Yu.S., red.;
YUDINTSEV, A.F., red.; CHISTYAKOVA, R.K., tekhn. red.;
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23456 Izucheniye novykh sortov maliny. Sad i ogorod, 1949, No. 7, c. 26-29

SO: LETOPLS' NO. 31, 1949

E 19011-65 EWA(k)/EWT(l)/EEC(t) APWL/SSD/ASD(a)-5/RAEM(c)/ESD(c)/ESD(dp)/
ESD(gs)

ACCESSION NR: AP4049546

8/0057/64/034/011/2038/2043

AUTHOR: Yegorov, L.A.; Lukashev, A.A.; Nitochkina, E.V.

TITLE: Investigation of the spectral sensitivity of semiconductor detectors to pulsed x-rays

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.11, 1964, 2038-2043

TOPIC TAGS: semiconductor device, radiation detector, pulsed radiation, x-ray detection

ABSTRACT: The authors have investigated the response of solid state radiation detectors to short x-ray pulses with intensities up to 10^9 erg/cm² sec. The x-ray equipment has been described elsewhere (A.A.Lukashev, ZhTF 31,1262,1961); it provided 10^{-7} sec pulses of 30 to 1100 keV x-rays with a mean pulse intensity of 3×10^7 erg/cm² sec at 1 m from the anode. The intensity at the detector was varied by varying the tube-to-detector distance. Type p-n germanium and types p-n and p-i-n silicon radiation detectors were investigated. Abstracter's note: The detectors are not further described nor identified. The resistance in the detector circuit was approximately 100 ohm, and the output signal was observed with an oscilloscope.

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The spectral sensitivities were determined by measuring the absorption curve of iron. The integral equation relating the measured absorption curve, the known spectral intensity distribution of the source, and the absorption coefficient of iron was solved by the method of L. Silberstein (Philos. Mag. 15, 375, 1933). The response of the detectors was found to be proportional to the intensity up to the highest intensities employed (10^9 erg/cm² sec). Absolute sensitivities were determined by comparison with detectors of known sensitivity. The sensitivities to approximately 100 keV radiation were close to the values calculated by A. Shalpykov and Ye. M. Lobanov (Sb. "Nekotoryye voprosy prikladnoy fiziki", p. 36, Izd. AN UzSSR, Tashkent, 1961), and for some silicon detectors they were as great as 10^{-16} A cm² sec/photon. The spectral sensitivity was found to be proportional to the product of the absorption coefficient of the detector material and the photon energy. The spectral sensitivity of the germanium detectors decreased rapidly with increasing photon energy in the region from 30 to 100 keV; that of the silicon detectors was nearly independent of photon energy (within 20%) over the whole range from 30 to 600 keV. Silicon detectors should, accordingly, be useful for a number of applications. Orig. art. has: 9 formulas and 3 figures.

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ACCESSION NR: AP404904G

ASSOCIATION: none

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SUB CODE: EC, OP

NR REF SOV: 010

ENCL: 00

OTHER: 004

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NEWMAN, F.R.

Theory of the free oscillations of beams on elastic supports.
Sudovnik. 1. Sudovnik. no.2:211-218 '64. (MIRA 1764)

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NITCHENKO, V. S.
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