

VEYNIK, A.I.

Theory of the melting of solids. Sbor.nauch.trud.Fiz.-tekh.inst.AN
BSSR no.6:162-171 '60. (MIRA 14:6)
(Melting)

VEYNIK, A.I., prof.

Concerning V.F. Stepanchuk and G.I. Khutskii's remarks.
Izv. vys. ucheb. zav.; energ. 3 no. 12:114-116 D '60.

(MIRA 14:2)

1. Belorusskiy politichnicheskiy institut. Chlen-korrespondent
AN BSSR.

(Thermodynamics)

VEYNIK, Al'bert Iozefovich; KONTSEVAYA, T.V., red.; KUZ'MENOK, P.T.,
tekh. red.

[Thermodynamics] Termodinamika. Minak, Izd-vo M-va vysshogo,
srednego spetsial'nogo i professional'nogo obrazovaniia Belorus-
skoi SSR, 1961. 365 p. (MIRA 14:11)
(Thermodynamics)

VEYNIK, A.I.

Theory of die casting. Lit. proizv. no.3:44-48 Mr '61. (MIR: 14:6)
(Die casting)

VEYNIK, A.L., prof.

Erroneous concepts of thermodynamics. *Izv.vys.ucheb.zav.; energ.*
8 no.3:114-117 Mr '65. (MIRA 18:4)

1. Belorusskiy politekhnicheskiy institut; chlen-korrespondent
AN BSSR.

VEYNIK, A.I.

Outlook for the development of continuous pipe casting.
Nauka - proizv. no.1:95-106 '63.

(MIRA 18:3)

1. Chlen-korrespondent AN BSSR.

VEYNIK, Albert Borisovich; TETTERINA, L.N., red.

[Thermodynamics] Termodinamika. 2. izd., perer. i dop.
Minsk, Vysshaya shkola, 1965. 402 p. (MIRA 18:9)

VEYNIK, A.I., prof.

Analysis and use of high-frequency drying of founding cores.
Izv. vys. ucheb. zav.; mashinostr. no.3:17-23 '65. (MIRA 18:6)

1. Fiziko-tekhnicheskiy institut AN BSSR. Chlen-korrespondent
AN BSSR.

VEYNIK, Al'bert Iosifovich

[Engineering thermodynamics and the principles of heat transmission] Tekhnicheskaja termodinamika i osnovy teploperedachi. Izd.2., perer. i dop. Moskva, Metallurgija, 1965. 375 p. (MIRA 18:7)

VEYNIK, Al'bert Iozefovich; TETERINA, L.N., red.

[Calculations of the structure of cast iron] Raschet struk -
tury chuguna. Minsk, Vysshaya shkola, 1964. 31 p.
(MIRA 18:4)

VIL'NER, Bertol'd Yakovlevich; DOROSHEVICH, Engel's Konstantinovich;
PESHES, Leonid Yakovlevich; VEYNIK, A.I., nauchn. red.

[Essays on cybernetics] Ocherki po kibernetike. Minsk, Nauka
i tekhnika, 1965. 154 p. (MIRA 18:3)

1. Chlen-korrespondent AN Belorusskoy SSR (for Veynik).

VEYNIK, A.L.; KUMANIN, I.B., kand. tekhn. nauk, retsenzent; MARKIZ,
Yu.L., inzh., red.

[Founding calculations] Raschet otlivki. Moskva, Izd-vo
"Mashinostroenie," 1964. 402 p. (MIRA 17:8)

VEYNIK, A.I., doktor tekhn. nauk; TUTOV, V.I., inzh.

Pipe casting by the cooling-up method. Mashinostroenie no.1:
67-70 Ja-F '64. (MIRA 17:7)

VEYNIK, A.I.

Theory of the moelectricity. Izv.vys.ucheb.zav.; fiz. no.3:139-
141 '63. (MIRA 16:12)

1. Belorusskiy politekhnicheskii institut.

VEYNIK, A.I., prof., red.; BEL'ZATSKAYA, L., red. izd-va; TKACHEVA, T.,
red. izd-va; ATLAS, A., tekhn. red.

[Physics of heat in foundry practice] Teplofizika v litel-
nom proizvodstve. Pod red. A.I. Veynika. Minsk, Izd-vo AN
BSSR, 1963. 535 p. (MIRA 16:11)

1. Akademiya nauk BSSR, Minsk. Fiziko-tekhnicheskiy institut.
2. Chlen-korrespondent AN BSSR (for Veynik).
(Founding) (Heat-Transmission)

VEINIK, A.I.

Development of the theory of heat. Vest.AN SSSR 32 no.4:82-85
Ap '62. (MIRA 15:5)

1. Chlen-korrespondent AN BSSR.
(Heat)

NESENCHUK, A.P.; ZEMAKIN, N.I. SEL'DIN, M.I., inzh., retsenzent;
SMOL'SKIY, A.M., inzh., retsenzent. GLUKHOV, B.F., kand.
tekhn. nauk, retsenzent; STEPANCHUK, V.F., kand. tekhn.
nauk, retsenzent; VEYNIK, A.I., prof., red.

[Course design of industrial boiler systems] Kursovoe proek-
tirovanie kotel'nykh ustanovok promyshlennykh kotel'nykh.
Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i pro-
fessional'nogo obrazovaniia BSSR, 1963. 103 p.

(MIRA 18:1)

VEYNIK, A.I.

Experimental determination of the spectral heat of the crystallization of alloys. Sbor. nauch. trud. Fiz.-tekh.inst. AN BSSR no.7: 168-172 '61. (MIRA 15:7)
(Alloys--Thermal properties) (Crystallization)

VEYNIK, A.I.

Solidification of castings. Sbor. nauch. trud. Fiz.-tekh.inst.
AN BSSR no.7:173-178 '61. (MIRA 15:7)
(Founding) (Solidification)

S/030/62/000/004/005/010
B102/B104

AUTHOR: Veynik, A. I., Corresponding Member AS BSSR

TITLE: Development of the theory of heat

PERIODICAL: Akademiya nauk SSSR. Vestnik, no. 4, 1962, 82-85

TEXT: The author gives a report on studies carried out under his leadership in the laboratoriya promyshlennoy teplofiziki Fiziko-tekhnicheskogo instituta Akademii nauk BSSR (Laboratory of Industrial Heat Physics of the Physicotechnical Institute of the Academy of Sciences, BSSR) and the kafedra teoreticheskikh osnov teplotekhniki Belorusskogo politekhnicheskogo instituta (Division of the Theoretical Bases of Thermal Engineering of the Belorussian Polytechnic Institute). These studies cover the thermodynamics of reversible and irreversible processes and transfer processes. They are based on generalized representations of the equations of state. This "generalized thermodynamics" is especially suitable for studying transfer effects. On the basis of an analysis of the thermoelectrical effect a generalized theory of "thermodynamic" pairs was developed. Such pairs may exist of e.g. two porous bodies of different humidity

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Development of the theory of...

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whose ends are connected. If one of the "contacts" is heated a "thermo-filtration" process arises and the humidity circulates in the "cell". Similar effects arise with diffusion or when two gases are mixed. These effects were used to study the thermodynamic properties of various bodies. New results were obtained on filtration (mass exchange), phase and chemical transformations. On the basis of an analysis of a general theory on metal hardening a new, simple and highly effective method of continuous tube production is proposed.

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8/123/62/000/013/019/021
A004/A101

AUTHOR: Veynik, A. I.

TITLE: On the theory of melting of bodies

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1962, 7, abstract 13G43 ("Sb. nauchn. tr. Fiz.-tekhn. in-t AS BSSR", 1960, no. 6, 162-171)

TEXT: The problem of the melting of bodies under the effect of the environment is of great theoretical and practical interest. These problems are of paramount importance in the launching of artificial earth satellites and interplanetary rockets, and also for the calculation and construction of melting furnaces and other installations. In the first case, the problem has to be solved taking into account the process of heat propagation in the surface layer of the body and the hydrodynamic characteristics of high-velocity gas flow. In the second case, hydrodynamic equations are not applicable since the effect of the environment on the body can be evaluated with the aid of heat transfer coefficient α . In the present article the given problem is solved by the approximation method of exclusion of variables. A sufficiently accurate solution of the problem of the

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On the theory of melting of bodies...

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second case can be found with the aid of this method. The same method can be applied to introduce into the problem well-known simplifications applicable to the first case. It is assumed that the temperature distribution in the cross section of the solid part of the body corresponds approximately to a parabolic equation of the n th order.

[Abstracter's note: Complete translation]

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