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BIBLIOGRAPHY OF SOVIET DEVELOPMENTS IN MAGNETOHYDRODYNAMICS

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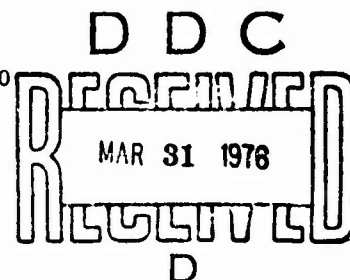
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INTRODUCTION

This bibliography has been compiled by Informatics Inc. in response to an ARPA contractual requirement to monitor current Soviet developments in the field of magnetohydrodynamics. The period covered is 1975, and includes all known references to MHD topics in open-source Soviet bloc material published or cited in that year.

In so broadly-based a topic as MHD, many different disciplines provide pertinent input. Thus in addition to publications expressly devoted to MHD, there is a large body of articles from journals on high temperature combustion, fluid dynamics, refractory materials, plasma physics, magnetics, etc. which apply to various aspects of magnetohydrodynamics. For the present purpose the selections have been generally limited to those relevant to MHD power generation, although a much broader inclusion could be justified. The bibliography nevertheless indicates a wide range of sources; in addition to the regular serial journals there were over 60 publications of the collection, proceedings or monograph type appearing in 1975 alone in the USSR on MHD. Regrettably, many of this type of special publication are often unobtainable outside the USSR, owing to the Soviet practice of frequently publishing them in very small numbers.

For the sake of consistency, the topic breakdown used is the same as that of the comprehensive ERDA bibliography on magnetohydrodynamics,* published in 1975, with the exception that we have not included electrohydrodynamics as a topic. Again, with an enlarged coverage a more detailed topic breakdown than the six assigned categories herein would probably be more useful in future coverage of the Soviet MHD material. Russian sources are generally

*Magnetohydrodynamics - power generation and theory: a bibliography. USERDA, November 1975, no. TID-3356.

abbreviated for simplicity; the full titles are listed at the end of the bibliography. A parenthesized entry (RZh, KL, etc.) stands for a secondary source in which the citation appears; all other cited sources are available in the Informatics Library. Russian authors publishing in U.S. journals have generally been omitted.

In summary, while not an exhaustive treatment of the subject, this collection is offered as a reasonably comprehensive listing of significant Soviet MHD publications in 1975.

1. MHD General

1. Barinberg, A. D., et al. Review of work by Donetsk scientists in applied MHD. MG, no. 1, 1975, 111-117.
2. Chursin, M. M. Magnitogidrodinamicheskiye generatory. Ucheb. posobiye (MHD generators. Basic text.) Moskva, 1974, 183 p. (KL, 29/75, no. 25644)
3. Elektroenergetika i magnitnaya gidrodinamika. Sbornik statey. (Electrical energy and magnetohydrodynamics. Collection of articles). Kiyev, Tekhnika, 1974, 208 p. (RZhF, 2/75, 2G160K)
4. Electromechanics, automation and applied magnetogasdynamics. Moscow, 1974, 158 p. (RZhMekh, 1/75, 1B82).
5. Foliforov, V. M. All-Union technical seminar on use of MHD pumps and chokes in the economy. MG, no. 4, 1975, 15-152.
6. Golovachov, V. MHD - the modern way of generating electricity. Moscow News, no. 45, Nov. 16-23, 1974, 11.
7. Kirillin, V. A., et al. Prospects for MHD energy conversion. IN: Sb 41, 1975, 3-16. (RZhElektrotekhnenerg, 11/75, 11F3).
8. Magnitogidrodinamicheskiye i elektrofizicheskiye kharakteristiki potokov provodyashchego gaza (Magnetohydrodynamic and electrophysical characteristics of conducting gas flow). IN: Sb 32, no. 8, Moskva, 1973, 148 p. (RZhElektrotekhnenerg, 1/75, 1F37).
9. Magnitogidrodinamicheskiye ustanovki. Sbornik statey (Magnetohydrodynamic devices. Collection of articles). Inst. vysokikh temperatur, Moskva, 1975, 126 p. VAN, no. 10, 1975, 132.

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11. Povkh, I. L., et al. Magnitnaya gidrodinamika v metallurgii (MHD in metallurgy). Moskva, Metallurgiya, 1974, 240 p. (RZhMekh, 5/75, 5B54).

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15. Tsinober, A. B. Work of the Riga seminar on turbulent MHD flows. MG, no. 3, 1974, 156-157. (RZhMekh, 3/75, 3B44)

16. Vasil'yev, N. N., and A. V. Nedospasov. Use of MHD generators in nuclear plants. IAN Energ, no. 6, 1975, 73-78.

17. Vos'moye Rizhskoye soveshchaniye po magnitnoy gidrodinamike, T. 3. MGD-metody i ustroystva (8th Riga Conference on magnetohydrodynamics, Vol. 3, MHD methods and installations). Riga, 1975, 144 p. (RZhElektrotekhenerg, 10/75, 10F1)

18. Vsesoyuznaya konferentsiya po primeneniya magnitnoy gidrodinamiki v metallurgii. Seminar po mekhanika sploshnykh sred. (All-Union conference on MHD applications in metallurgy. Seminar on mechanics of continuous media). Perm'. 1974, 85 p. (RZhF, 2/75, 2G169K)

19. Wehner, F. 20,000 meters under the Pamirs [MHD generator used for seismic sounding]. Neues Deutschland, 6/7 Sept. 1975, p. 16.

2. Design and Development

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24. Apukhovskiy, A. I. Study of dynamic processes in low-temperature plasma by harmonic analysis. IN: Sb 35, no. 1, 1974, 35-41. (RZhElektrotekhnenerg, 2/75, 2F10)
25. Asinovskiy, E. I., et al. Study on performance of electric arc electrodes for an MHD generator. TVT, no. 4, 1975, 830-835.
26. Barinberg, A. D., et. al. Modeling of MHD devices. MG, no. 2, 1975, 115-121.
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7. SOURCE ABBREVIATIONS

AE	-	Atomnaya energiya
AN SSSR PM	-	Akademiya nauk SSSR. Institut prikladnoy matematiki. Moscow.
DAN SSSR	-	Akademiya nauk SSSR. Doklady
FGiV	-	Fizika goreniya i vzryva
GAO	-	Glavnaya Astronomicheskaya Observatoria, Pulkovo.
IAN Arm	-	Akademiya nauk Armyanskaya SSR. Izvestiya Mekhanika.
IAN SO SSSR	-	Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya
IVUZ Avia	-	Izvestiya vysshikh uchebnykh zavedeniy. Aviatsionnaya tekhnika
IVUZ Elektromekh	-	Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika.
KL	-	Knizhnaya letopis'
KLDV	-	Knizhnaya letopis' - Dopolnitel'nyy vypusk.
LZhS	-	Letopis' zhurnal'nykh statey
MG	-	Magnitnaya gidrodinamika
MZhiG	-	Akademiya nauk SSSR. Izvestiya. Mekhanika zhidkosti i gaza.
PM	-	Prikladnaya mekhanika
PMM	-	Prikladnaya matematika i mekhanika
Por. Metal	-	Poroshkovaya metallurgiya
RBL	-	Russian Book List
RZhElektrotekhennerg	-	Referativnyy zhurnal. Elektrotekhnika i energetika, 21F

- Sb 1 - Sbornik. Materialy Vses. shkoly po differents. uravneniyam s beskonech. chislom nezavisimyykh peremennykh i po dinamichesk. sistemam s beskonech. chislom stepeney svobody. Dilizhan, AN Arm SSR.
- Sb 2 - _____. Preobrazovatel'n. i elektroizmerit. Tekhnika, Kiev.
- Sb 3 - _____. Teor. i prikl. mekh.
- Sb 4 - _____. Matematika i mekhanika, Alma-Ata.
- Sb 5 - _____. Sovrem. probl. teplovoy gravitats. konveksii, Minsk.
- Sb 6 - _____. Uralsk. konf. po primeneniyyu magnit. gidrodinam. v metallurgii. Perm.
- Sb 7 - _____. Raschet na prochnost' i zhestkost' elementov s-kh mashin i tekhnol oborud. Rostov na Donu.
- Sb 8 - _____. Mosk. obl. ped. in-t, Moscow.
- Sb 9 - _____. Vses. konf. po primeneniyyu magnit. gidrodinam, v metallurgii, Perm.
- Sb 10 - _____. Materialy Konf. molodykh uchenykh Mordovsk, un-t. Estestv. i tekhn. Saransk.
- Sb 11 - _____. Sovrem. probl. teplovoy gravitats. Minsk.
- Sb 12 - _____. VI Vses. konf. po generatoram nizkotemperatur. plazmy. Frunze.
- Sb 13 - _____. Elektroenerg. i magnit. gidrodinamika, Kiev.
- Sb 14 - _____. Fiz. aerodispersn. sistem.
- Sb 15 - _____. Chisl. metody mekh. splosh. sredy.
- Sb 16 - _____. Gidromekhanika. Moscow
- Sb 17 - _____. Protsessy i apparaty v magnitniy pole. Apatity.

- Sb 18 - _____ . Geofizicheskiye issledovaniya, Minsk.
- Sb 19 - _____ . Dinamika i ustoychivost' mnogomern. sistem. Kiev.
- Sb 20 - _____ . Raboty po mekhaniki sploshnoy sredi, Tula.
- Sb 21 - _____ . Izbranyye problemy prikladnoy mekhaniki, Moscow.
- Sb 22 - _____ . Elektronika i modelirovaniye, Kiev.
- Sb 23 - _____ . Teploobmen. Moscow.
- Sb 24 - _____ . Nauchnyy institut vychislitel'nogo tsentra, Moskovskiy universitet, Moscow.
- Sb 25 - _____ . Raspredelennoye upravleniye protsessami v sploshikh sredakh, Kiev.
- Sb 26 - _____ . Problemy tekhnicheskoy elektrodinamiki. Moscow.
- Sb 27 - _____ . Aerofizicheskiye issledovaniya, Novosibirsk.
- Sb 28 - _____ . 8th Rzh. soveshchaniya po magnit. gidrodinamike, Riga.
- Sb 29 - _____ . Teplo. i massoobmen v khimicheskoy tekhnologii, Kazan'.
- Sb 30 - _____ . Matematicheskaya fizika, Moscow.
- Sb 31 - _____ . Kibernetika i vychislitel'naya tekhnika, Moscow.
- Sb 32 - _____ . Energeticheskiy institut im. G. M. Krzhizhanovskogo, Moscow.
- Sb 33 - _____ . Teplotekhnicheskiye problemy pryamogo preobrazovaniya energii. Kiev.
- Sb 34 - _____ . Stroyeniye, svoystva i primeneniye metallidov. Moscow.

Sb 35	-	_____. Voprosy MGD preobrazovaniya energii. Kiev.
Sb 36	-	_____. Materialy dokl. XI nauch. sessii, posvyashch. itogam nauch. issled. rabot resp/ po koordinir. AN AzSSR probl. yestestv. i obshchestv. nauk za 1973. Baku.
Sb 37	-	_____. Energetika, Kuybyshev.
Sb 38	-	_____. Voprosy gazotermodynamiki energoustanovok. Khar'kov.
Sb 39	-	_____. Energetika, Voronezh.
Sb 40	-	_____. Institut vysok. temperatur, AN SSSR, Moscow
Sb 41	-	_____. Magnitnogidrodinamicheskiye ustanovki. Moscow.
Sb 42	-	_____. Fiz. i primeneniye plazm uskoriteley, Minsk.
Sb 43	-	_____. Teplofizika i termodinamika, Sverdlovsk.
Sb 44	-	_____. Fiz. institut, AN SSSR, Moscow.
TVT	-	Teplofizika vysokikh temperatur
Tr 1	-	Trudy. Frunze politekhnicheskiiy institut Frunze.
Tr 2	-	_____. Tsentr. Aero-Gidrodinam. Institut, Moscow.
Tr 3	-	_____. Yerevan un-t. Yestestv. nauk.
Tr 4	-	_____. Molodoy nauch. rabotnik, Yerevan.
Tr 5	-	_____. Mosk. energ. in-ta., Moscow
Tr 6	-	_____. Mosk. fiz. -tekh. in-ta, Moscow
Tr 7	-	_____. Inst. mekh., Mosk un-ta, Moscow
Tr 8	-	_____. Kazan'. Aviatsionnyy institut.
Tr 9	-	_____. Matematicheskiy Institut, AN SSSR, Moscow.
Tr 10	-	_____. Moskovskiy Aviatsionnyy Institut, Moscow.

Tr 11	-	_____. Tallin Politekhnicheskiy Institut, Tallin.
Tr 12	-	_____. Azerb. nauch. -issled. institut energetiki, Baku.
UFN	-	Uspekhi fizicheskikh nauk
VAN	-	Akademiya nauk SSSR. Vestnik
VAN UKrSSR	-	Akademiya nauk Ukrainskoy SSR. Vestnik
VLU	-	Leningradskiy universitet. Vestnik
ZhETF	-	Zhurnal eksperimental'noy i teoreticheskoy fiziki.
ZhETF P	-	Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki.
ZhPKh	-	Zhurnal prikladnoy khimii.
ZhPMTF	-	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki.
ZhTF	-	Zhurnal tekhnicheskoy fiziki.
ZhTF P	-	Pis'ma v Zhurnal tekhnicheskoy fiziki.