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## New books

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**Abstract**

**Full Text**

**Preamble**

**DIFFERENTIAL EQUATIONS** August 1965, Volume I, No. 8

### New Books

**Kiselev, A. I., Krasnov, M. L., and Makarenko, G. I.** *Collection of Problems on Ordinary Differential Equations.* Moscow, "Vysshaya Shkola," 1965, 231 pp.

*Boundary Value Problems in Mathematical Physics.* A collection of articles edited by N. K. Usmanov. Riga, 1965, 55 pp. (Proceedings of the Riga Institute of Civil Aviation Engineers named after the Leninist Komsomol).

*Boundary Value Problems of Mathematical Physics.* A collection of works edited by O. A. Ladyzhenskaya. Moscow-Leningrad, "Nauka," 1964. (Academy of Sciences of the USSR. Proceedings of the V. A. Steklov Mathematical Institute, Vol. 73).

**Mitropolsky, Yu. A. and Lykova, O. B.** *Investigation of the Behavior of Solutions to Nonlinear Equations in the Neighborhood of Equilibrium Positions.* Kiev, 1964, 44 pp. (State Committee of the Council of Ministers of the Ukrainian SSR for the Coordination of Scientific Research. Institute of Technical Information. Academy of Sciences of the Ukrainian SSR, Institute of Mathematics).

**Mikhlin, S. G. and Smolitskiy, Kh. L.** *Approximate Methods for Solving Differential and Integral Equations.* Moscow, "Nauka," 1965, 383 pp. with diagrams, 21 cm. Edited by L. A. Lyusternik and A. R. Yanpolsky.

**Danilyuk, I. I.** *Lectures on Boundary Value Problems for Analytic Functions and Singular Integral Equations.* For students of Novosibirsk State University.

Novosibirsk, 225 pp. with diagrams. (Novosibirsk State University). Bibliography: 30 titles.

**Kulikov, N. K.** *An Engineering Method for Solving and Investigating Ordinary Linear Differential Equations*. Moscow, "Vysshaya Shkola," 1964, 224 pp. (Ministry of Higher and Secondary Specialized Education of the RSFSR. Moscow Order of Lenin and Order of the Red Banner of Labour Institute of Technical Information, Academy of Sciences of the Ukrainian SSR, Institute of Mathematics).

**Sirchenko, Z. F.** *On the Existence and Properties of an Almost Periodic Solution of a Differential Equation in Standard Form in Hilbert Space in the Neighborhood of an Equilibrium Point*. Kiev, 1964, 40 pp. (State Committee of the Council of Ministers of the Ukrainian SSR for the Coordination of Scientific Research. Institute of Technical Information, Academy of Sciences of the Ukrainian SSR, Institute of Mathematics).

**Ladyzhenskaya, O. A. and Uraltseva, N. N.** *Linear and Quasilinear Equations of Elliptic Type*. Moscow, "Nauka," 1964, 538 pp. Bibliography: 105 titles.

**Salekhov, L. G.** *Textbook on the Calculus of Variations and Equations of Mathematical Physics*. Edited by L. A. Aksentiev. Kazan, 1964, 60 pp. (Kazan V. I. Ulyanov-Lenin State University, Order of the Red Banner of Labour).

**Pukhov, G. E., Grezdov, G. I., and Verlan, A. F.** *Methods for Solving Boundary Value Problems on Electronic Models*. Edited by G. E. Pukhov. Kiev, "Naukova Dumka," 1965, 144 pp. with diagrams. (Academy of Sciences of the Ukrainian SSR).

#### List of Journal Articles

**Saul'yev, V. K.** On regular non-homogeneous grid schemes and quasi-stability. *Differentsial'nye Uravneniya* [Differential Equations], 1965, Vol. I, No. 3, pp. 421-425.

**Semenov, M. P.** On a two-point boundary value problem. *Matematicheskii Sbornik*, 1965, pp. 97-108. Bibliography: 13 titles.

**Sibirsky, K. S.** On the number of limit cycles in the neighborhood of a singular point. *Differentsial'nye Uravneniya*, 1965, Vol. I, No. 1, pp. 53-66.

**Skachkov, B. N.** On the stability of the zero solution for a class of differential equations of  $n$ -th order. *Differentsial'nye Uravneniya*, 1965, Vol. I, No. 2.

**Solomyak, M. Z.** On the Shapiro-Lopatinskii condition for the solvability of boundary value problems. *Vestnik Leningradskogo Universiteta. Seriya Matematiki, Mekhaniki i Astronomii*, 1965, No. 1, pp. 143-144.

**Solomyak, T. B.** The first boundary value problem for quasilinear elliptic equations with non-uniform growth of coefficients. *Vestnik Leningradskogo Uni-*

versiteta. *Seriya Matematiki, Mekhaniki i Astronomii*, 1965, No. 1, pp. 159–160.

**Sofronov, E. T.** On the stability of unperturbed motion in one critical case. *Vestnik Leningradskogo Universiteta. Seriya Matematiki, Mekhaniki i Astronomii*, 1965, No. 1, Issue 1.

**Stankevich, I. V.** Asymptotic behavior of the solution to the non-stationary Schrödinger equation with a non-self-adjoint Hamiltonian. *Doklady Akademii Nauk SSSR* [DAN SSSR], 1965, No. 6, pp. 1271–1274.

**Sternin, B. Yu.** General boundary value problems for elliptic equations in a domain whose boundary consists of manifolds of different dimensions. *Vestnik Moskovskogo Universiteta. Seriya I, Matematika, Mekhanika*, 1965, No. 2.

**Tabaka, K. K.** Transformation of differential equations by the similarity method. *Izvestiya Akademii Nauk Latvyskoy SSR. Seriya Fizicheskikh i Tekhnicheskikh Nauk*, 1965, No. 1, pp. 65–74.

**Tivonchuk, V. I.** On the solution of linear Volterra integral equations using a variant of Yu. D. Sokolov' s method. *Ukrainskiy Matematicheskiy Zhurnal*, 1965.

**Tovmasyan, N. E.** Certain boundary value problems for systems of second-order elliptic equations in the plane. *DAN SSSR*, 1965, No. 6, pp. 1275–1278.

**Tovmasyan, N. E.** Certain boundary value problems for systems of second-order elliptic equations satisfying the Shapiro-Lopatinskii condition. *DAN SSSR*, 1965, No. 5, pp. 1028–1031.

**Tukalevskaya, N. I. and Nesterchuk, A. V.** On a method for solving linear Volterra integral equations. *Ukrainskiy Matematicheskiy Zhurnal*, 1965, No. 1.

**Fedenko, N. P.** A note on the instability of certain rules for the numerical solution of the Cauchy problem. *Differentsial nye Uravneniya*, 1965, Vol. I, No. 2, pp. 227–229.

**Filler, F. M.** On the numerical solution of Fredholm integral equations of the second kind. *DAN SSSR*, 1965, No. 3, pp. 555–557.

**Khokhryakov, A. Ya. and Arkhipov, B. M.** A theorem on a differential inequality for a periodic boundary value problem of a second-order ordinary differential equation. *Differentsial nye Uravneniya*, 1965, Vol. I, No. 3, pp. 335–345. Bibliography: 19 titles.

**Chaus, N. N.** On the uniqueness of the solution to the Cauchy problem for systems of partial differential equations. *Ukrainskiy Matematicheskiy Zhurnal*, 1965, No. 1, pp. 126–130.

**Cherkas, L. A.** On complex cycles of a differential equation. *Differentsial nye Uravneniya*, 1965, Vol. I, No. 2, pp. 182–186.

**Chernov, V. M.** Asymptotic properties of the two-dimensional Laplace transform. *Izvestiya Vysshikh Uchebnykh Zavedeniy. Matematika*, 1965, No. 1, pp. 158-167.

**Shabat, A. B.** On the removability of level sets of solutions to elliptic equations. *DAN SSSR*, 1965, No. 5, pp. 1032-1035.

**Shamanskiy, V. E.** Numerical solution of difference boundary value problems using evolutionary difference problems. *Ukrainskiy Matematicheskiy Zhurnal*, 1965, No. 1, pp. 102-108.

**Sharipov, Sh. R.** Investigation of characteristics in the large. *Izvestiya Vysshikh Uchebnykh Zavedeniy. Matematika*, 1965, No. 1, pp. 180-183.

**Shimanov, S. N.** On the theory of linear differential equations with aftereffect. *Differentsial nye Uravneniya*, 1965, Vol. I, No. 1, pp. 102-116.

**Shkil, N. I.** On improving the algorithm for constructing the asymptotic solution of a system of linear differential equations containing a parameter. *DAN Ukrainiskoy SSR*, 1965, No. 3. (In Ukrainian).

**Shmulev, I. I.** Periodic solutions of the first boundary value problem for parabolic equations. *Matematicheskiy Sbornik*, 1965, No. 3, pp. 398-410.

**Shcherbakov, B. A.** Dynamical systems in the works of the Kishinev seminar on the qualitative theory of differential equations. *Differentsial nye Uravneniya*, 1965, Vol. I, No. 2, pp. 260-266. Bibliography: 35 titles.

**Yablonskiy, A. I.** Differential equations with solutions without singular points in the finite plane. *Differentsial nye Uravneniya*, 1965, Vol. I, No. 1, pp. 67-78.

Compiled by A. R. Shakun

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