



---

Soviet-era science, translated into English

## New Books

A. R. Shakun

1967

SovietRxiv

---

View the original and related papers at <https://sovietrxiv.org/items/ru-196701.77095>

Source: Math-Net.Ru and CyberLeninka. Machine translation. Verify with the original.

**Abstract**

**Full Text**

## **New Books**

**Alexidze M. A., Pertaya K. V.** Universal programs for solving, by the finite-difference method, the plane interior Dirichlet problem for the Laplace and Poisson equations. Tbilisi, "Metsniereba," 1966, 91 pp. with illus. (Academy of Sciences of the Georgian SSR, Computing Center).

**Akhiezer N. I., Glazman I. M.** Theory of linear operators in Hilbert space. 2nd ed., revised and enlarged. Moscow, "Nauka," 1966, 543 pp.

**Belukhina I. G.** A program for solving the first boundary-value problem for a two-dimensional non-self-adjoint parabolic equation in a rectangle. Under the general editorship of V. V. Voevodin. Moscow, Moscow University Press, 1966, 36 pp. (M. V. Lomonosov Moscow State University. Computing Center. Series "Standard programs for solving typical mathematical problems on the M-20 machine." Issue 22).

**Bers L., John F., Schechter M.** Equations with partial derivatives. Translated from the English by Yu. V. Egorov, edited by O. A. Oleinik. Moscow, "Mir," 1966, 351 pp. with illus.

**Borovikov V. A.** Diffraction on polygons and polyhedra. Moscow, "Nauka," 1966, 455 pp. with illus. (Contemporary Problems of Mathematics).

**"Problems of integration of differential equations."** Collection of articles. Responsible editor I. S. Arzhanykh. Tashkent, "Nauka," 1966, 273 pp. with illus. Ministry of Higher and Secondary Specialized Education of the Uzbek SSR, Samarkand State University named after A. Navoi.

**Dunford N., Schwartz J.** Linear operators. With the participation of W. Bade and R. Bartle. Translated from the English, edited by A. G. Kostyuchenko. Moscow, "Mir," 1966, vol. 2. Spectral theory. Self-adjoint operators in Hilbert space. Translation by M. G. Gasimov et al., 1063 pp. Bibliography: pp. 950-1039.

**Ivanov V. N.** The abstract Cauchy problem and the perturbation theory of closed operators. Saratov, Volga Book Publishing House, 1966, 59 pp. (Ministry of Agriculture of the USSR. Proceedings of the Saratov Institute of Agricultural Mechanization named after M. I. Kalinin. Issue 39. Part 3).

**Kikin D. B.** Linear differential equations of higher orders. Textbook. For correspondence students. Moscow, 1967, 45 pp. (All-Union Correspondence Polytechnic Institute. Department of Higher Mathematics).

**"Boundary-value problems of mathematical physics."** Collection of works. Edited by O. A. Ladyzhenskaya. Moscow-Leningrad, "Nauka" (Leningrad

Branch), 1966. (Academy of Sciences of the USSR. Proceedings of the V. A. Steklov Mathematical Institute). 4, 298 pp.

**Matveev N. M.** Higher mathematics. Differential equations. Lecture notes. Leningrad, 1966, 167 pp. with illus. (Ministry of Higher and Secondary Specialized Education of the RSFSR. Northwestern Correspondence Polytechnic Institute. Educational television).

**Mitropolsky Yu. A.** Lectures on the averaging method in nonlinear mechanics. Kiev, "Naukova Dumka," 1966, 469 pp. (Academy of Sciences of the USSR. Institute of Mathematics). Bibliography: 107 titles.

**Mikhailov L. G.** Integral equations with a homogeneous kernel of degree  $-1$ . Dushanbe, "Donish," 1966, 49 pp.

**"Difference methods for solving problems of mathematical physics."** Collection of works. Edited by N. N. Yanenko. Moscow, "Nauka," 1966. (Academy of Sciences of the USSR. Proceedings of the V. A. Steklov Mathematical Institute). Part 1. 171 pp. with illus.

**Smirnov M. M.** Degenerate elliptic and hyperbolic equations. Moscow, "Nauka," 1966, 292 pp. with illus.

**Sobolev S. L.** Equations of mathematical physics. (Textbook for mechanics-mathematics faculties of state universities). 4th ed. Moscow, "Nauka," 1966, 443 pp. with illus.

**Sokolov L. V.** On special solutions of first-order partial differential equations. Moscow, "Vysshaya Shkola," 1966, 333 pp. with illus. Bibliography: 78 titles.

**"Theory of functions, functional analysis, and their applications."** Issue 3. Collection of articles. Responsible editor V. A. Marchenko. Kharkov, Kharkov University Press, 1966. (Republican scientific collection). 227 pp.

**Lyapunov exponent theory and its applications to stability problems.** Moscow, "Nauka," 1966, 576 pp. with illus. Foreword authors: B. F. Bylov, R. E. Vinograd, D. M. Grobman, V. V. Nemytskii.

## New Books

"Theory of Functions and Differential Equations." Collection of articles. Scientific editor Z. I. Kozlova. Saratov, Saratov University Press, 1966. 60 pp. (A. S. Serafimovich Volgograd Pedagogical Institute).

**Filippov, A. F.; Elsgolts, L. E.** *Differential Equations*. Methodological instructions for third-year correspondence students of mechanics and mathematics faculties of state universities. (Revised and expanded by A. F. Filippov.) Moscow, Moscow University Press, 1966. 56 pp., with diagrams. (Ministry of Higher and Secondary Specialized Education of the RSFSR.

Scientific-Methodological Office for Correspondence and Evening Instruction,  
M. V. Lomonosov Moscow State University.)

**Hale, J.** *Oscillations in Nonlinear Systems*. Translated from the English by R. S. Gusarova. Edited by V. M. Volosov. Moscow, "Mir," 1966. 230 pp., with diagrams.

**Tslaf, L. Ya.** *Calculus of Variations and Integral Equations*. Reference manual. Moscow, "Nauka," 1966. 176 pp., with diagrams.

**Shamansky, V. E.** *Methods for the Numerical Solution of Boundary-Value Problems on Electronic Digital Computers* (in 2 parts). Kiev, "Naukova Dumka," 1966. (Academy of Sciences of the USSR. Institute of Mathematics.)

*Compiled by A. R. SHAKUN*

---

## Figures

*Source: Math-Net.Ru and CyberLeninka. Machine translation. Verify with the original.*

## NEW BOOKS

- Aleksidze M. A., Pertaia K. V.** Universal programs for solving by the finite difference method the plane interior Dirichlet problem for the Laplace and Poisson equations. Tbilisi, "Metsnierereba", 1966, 91 pp. with illustr. (AS GruzSSR, Comput. center).
- Akhiezer N. I., Glazman I. M.** Theory of linear operators in Hilbert space. 2nd ed., revised and supplemented M., "Nauka", 1966, 543 pp.
- Belukhina I. G.** Program for solving the first boundary value problem for a two-dimensional self-adjoint parabolic equation in a rectangle. Under general ed. of V. V. Voevodina. M., Ed. of Moscow Univ., 1966, 36 pp. (Moscow State Univ. named after M. V. Lomonosov. Comput. center. Series "Standard programs for solving typical mathematical problems on the M-20 machine". Iss. 22).
- Bers L., John F., Schecter M.** Partial differential equations. Trans. from English by Yu. V. Egorova, under ed. of O. A. Oleinik. M., "Mir", 1966, 351 pp. with illustr.
- Borovikov V. A.** Diffraction by polygons and polyhedra. M., "Nauka", 1966, 455 pp. with illustr. (Modern problems of mathematics).
- "Questions of integration of differential equations". Collection of articles. Resp. ed. I. S. Arzhanah. Tashkent, "Nauka", 1966, 273 pp. with illustr. M-vo higher and secondary spec. education UzSSR, Samarkand State Univ. named after A. Navoi.
- Dunford N., Schwartz J.** Linear operators. With participation of W. Bade and R. Bartle. Trans. from English, under ed. of A. G. Kostyuchenko. M., "Mir", 1966, vol. 2. Spectral theory. Self-adjoint operators in Hilbert space. Translation by M. G. Gasimova and others, 1063 pp. Bibliogr.: pp. 950—1039.
- Ivanov V. N.** Abstract Cauchy problem and theory of perturbations of closed operators. Saratov. Privolzh. book ed., 1966, 59 pp. (M-vo agric. of the USSR. Trudy Saratov inst. of mechanization of agric. named after M. I. Kalinin. Iss. 39, P. 3).
- Kiklin D. B.** Linear differential equations of higher orders. Textbook. For correspondence students. M., 1967, 45 pp. (All-Union correspondence polytechn. inst. Department of higher mathematics).
- "Boundary value problems of mathematical physics". Collection of articles. Under ed. of O. A. Ladyzhenskaya. M.—L., "Nauka", (Leningrad branch), 1966. (AS USSR. Trudy matem. inst. named after V. A. Steklov) 4. 298 pp.
- Matveev N. M.** Higher mathematics. Differential equations. Summary of lectures. L., 1966, 167 pp. with illustr. (M-vo higher and secondary spec. education RSFSR. North-West correspondence polytechn. inst. Educational television).
- Mitropolsky Yu. A.** Lectures on the averaging method in nonlinear mechanics. Kiev, "Naukova dumka", 1966, 469 pp. (AS SSSR. Inst. of mathematics). Bibliogr.: 107 items.
- Mikhaillov L. G.** Integral equations with a kernel that is homogeneous of degree  $-1$ . Dushanbe, "Donish", 1966, 49 pp.
- "Difference methods for solving problems of mathematical physics". Collection of works. Under ed. of N. N. Yanenko. M., "Nauka", 1966. (AS USSR. Trudy Matem. inst. named after V. A. Steklov) P. I. 171 pp. with illustr.
- Smirnov M. M.** Degenerating elliptic and hyperbolic equations. M., "Nauka", 1966, 292 pp. with illustr.
- Sobolev S. L.** Equations of mathematical physics. (Textbook for mech.-mat. fac. of univs.). 4th ed. M., "Nauka", 1966, 443 pp. with illustr.
- Sokolov L. V.** On special solutions of equations with partial derivatives of the first order. M., "Vysshaya shkola", 1966, 333 pp. with illustr. Bibliogr.: 78 items.
- "Theory of functions, functional analysis and their applications". Iss. 3. Collection of articles. Resp. editor V. A. Marchenko. Kharkov, Ed-vo Kharkov univ., 1966. (Resp. sci. collection). 227 pp.
- Lyapunov's theory of exponents and its applications to questions of stability. M., "Nauka", 1966, 576 pp. with illustr. Preface by authors: B. F. Bylov, R. E. Vinograd, D. M. Grobman, V. V. Nemytsky.

Figure 1: Figure 1

- «Theory of functions and differential equations». Collection of articles. Scientific editor Z. I. Kozlova. Saratov, Saratov University Press, 1966. 60 pages. (Volgograd Pedagogical Institute named after A. S. Serafimovich).
- Filippov A. F., El'sgol'ts L. E. Differential equations. Methodological instructions for 3rd-year correspondence students of mechanics and mathematics faculties of state universities. (Revised and supplemented by A. F. Filippov). M., Moscow University Press, 1966. 56 pages with illustrations. (Ministry of Higher and Secondary Specialized Education - after M. V. Lomonosov).
- Hale J. Oscillations in nonlinear systems. Translated from English by R. S. Gusarova. V. M. Volosov. M., «Mir», 1966. 230 pages with illustrations.
- Tsit' L. Ya. Calculus of variations and integral equations. Reference guide. M., «Nauka», 1966. 176 pages with illustrations.
- Shamanskii V. E. Methods for the numerical solution of boundary value problems on ECM (in 2 parts). Kiev, «Naukova Dumka», 1966. (USSR Academy of Sciences. Institute of Mathematics).

Compiler A. R. SHAKUN

Figure 2: Figure 2