New Books

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Abstract

Full Text

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1. **Aramanovich I. G. and Levin V. I.** Equations of mathematical physics. (Textbook for higher educational institutions). Moscow, "Nauka," 1964. 287 pp. with figures. (Selected chapters of higher mathematics for engineers and students of higher educational institutions).

2. **Arsenin V. Ya.** Equations of mathematical physics. Textbook, part 1. Moscow, 1964. 149 pp. with figures. (Ministry of Higher and Secondary Specialized Education of the RSFSR. Moscow Engineering-Physics Institute).

3. **Bergman Stefan.** Integral operators in the theory of linear partial differential equations. Translated from English by L. A. Markushevich. Edited by I. I. Danilyuk. Moscow, "Mir," 1964. 305 pp. with figures. (Library of the collection "Mathematics"). Bibliography: pp. 202–218 and 298–302.

4. Questions of mathematical physics and the theory of functions. (Collection of articles). Kiev, Publishing House of the Academy of Sciences of the Ukrainian SSR, 1964. (Academy of Sciences of the Ukrainian SSR. Institute of Mathematics).

    1) Editorial board: Yu. A. Mitropolsky (responsible editor) and others. 192 pp. with figures.

    2) Editorial board: O. S. Parasyuk (responsible editor) and others. "Naukova dumka." 196 pp. with figures.

5. Integration of certain differential equations of mathematical physics. (Collection of articles). Executive editor I. S. Arzhanykh. Tashkent, "Nauka," 1964. 256 pp. (Academy of Sciences of the Uzbek SSR. Institute of Mathematics named after V. I. Romanovsky).

6. Studies on boundary-value problems of the theory of functions and differential equations. (Collection of articles. Scientific editor L. G. Mikhailov). Dushanbe, 1964. 138 pp. (Academy of Sciences of the Tajik SSR. Department of Physics and Mathematics).

7. **Karagodova E. A.** Questions of stability of solutions of special integral equations of the Fredholm type of the first and second kind. **Beiko I. V.** Certain problems of optimal pursuit. Kiev, 1964. 30 pp. (Scientific Council on Cybernetics of the Academy of Sciences of the Ukrainian SSR. Kiev House of Scientific and Technical Propaganda. Materials of scientific seminars on theoretical and applied problems of cybernetics. Seminar "Computational Mathematics").

8. **Kvit I. D.** Elements of integral equations and foundations of the calculus of variations. Lectures on methods of mathematical physics for students of physics faculties. Lvov, 1964. 196 pp. (Ministry of Higher and Secondary Specialized Education of the Ukrainian SSR. Lvov Order of Lenin State University named after Ivan Franko).

9. Boundary-value problems of mathematical physics. Collection of papers. Edited by O. A. Ladyzhenskaya. Moscow–Leningrad, "Nauka" (Leningrad branch), 1964. 319 pp. (Academy of Sciences of the USSR. Proceedings of the Mathematical Institute named after V. A. Steklov).

10. **Courant Richard.** Partial differential equations. Translated from English by T. D. Venttsel. Edited by O. A. Oleinik. Moscow, "Mir," 1964. 830 pp. with figures.

11. **Kulikov N. K.** The engineering method of solution and investigation of ordinary linear differential equations. Moscow, "Vysshaya shkola," 1964. 224 pp., 20 cm. (Ministry of Higher and Secondary Specialized Education of the RSFSR. Moscow Higher Technical School named after N. E. Bauman, Order of Lenin and Order of the Red Banner of Labor. Proceedings of the Department of Higher Mathematics). 3000 copies, 42 kopecks.

12. Linear equations of mathematical physics. Edited by S. G. Mikhlin. Moscow, "Nauka," 1964. 368 pp. with figures. (Reference mathematical library. Under the general editorship of L. A. Lyusternik and A. R. Yanpolsky).

13. **Misyurkeev I. V.** Collection of problems and exercises on methods of mathematical physics. (For physics-mathematics faculties of pedagogical institutes). Moscow, "Prosveshchenie," 1964. 135 pp. with figures.

14. **Molchanov I. N.** Methods for solving boundary-value problems for elliptic differential equations that save memory in an electronic digital computer. Kiev, 1963. (Scientific Council on Cybernetics of the Academy of Sciences of the Ukrainian SSR. Kiev House of Scientific and Technical Propaganda. Materials of scientific seminars on theoretical and applied problems of cybernetics. Seminar "Computational Mathematics"). Issue 1, 46 pp.; issue 2, 39 pp.

15. **Nikolaev V. V.** A standard program for numerical integration of a system of ordinary differential equations by Hamming' s method with a constant step. Novosibirsk, 1964. 12 pp. (Academy of Sciences of the USSR. Siberian Branch. Computing Center).

16. **Petrovsky I. G.** Lectures on the theory of ordinary differential equations. (For mechanics-mathematics faculties of universities). 5th edition, supplemented. Moscow, "Nauka," 1964. 272 pp. with figures.

17. **Polozhii G. N.** Equations of mathematical physics. (Textbook for

mechanics-mathematics and physics-mathematics faculties of universities). Moscow, "Vysshaya shkola," 1964. 559 pp. with figures.

18. **Polozkov A. P.** *Differential Equations.* (For correspondence students of polytechnical higher educational institutions.) Under the general editorship of F. A. Bakhshiyan. Moscow, "Vysshaya shkola," 1964. 83 pp. (All-Union Correspondence Polytechnical Institute).

19. *Approximate Methods for Solving Differential Equations.* (Collection of articles.) Editorial board: Yu. A. Mitropol' skii (executive editor) and others. Issues 1-2. Kiev, "Naukova dumka," 1963-1964. (Academy of Sciences of the Ukrainian SSR. Institute of Mathematics.) Issue 1, 1963. 155 pp. Issue 2, 1964. 176 pp.

20. **Rasulov M. L.** *The Method of the Contour Integral and Its Application to the Investigation of Problems for Differential Equations.* Moscow, "Nauka," 1964. 462 pp. with illustrations. Bibliography: pp. 458-462.

21. *Seminar on the Theory of Differential Equations with Deviating Argument.* Moscow. Proceedings, vol. 2. Moscow, 1963. (Patrice Lumumba Peoples' Friendship University.) 250 pp.

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

23. **Smirnov M. M.** *Second-Order Partial Differential Equations.* (Textbook for mechanics-and-mathematics and physics-and-mathematics faculties of universities.) Moscow, "Nauka," 1964. 206 pp. with illustrations.

24. **Cesari Lamberto.** *Asymptotic Behavior and Stability of Solutions of Ordinary Differential Equations.* Translated from English by A. N. Cherkasov. Edited by V. V. Nemytskii. Moscow, "Mir," 1964. 477 pp. with illustrations. Bibliography: pp. 324-465.

25. **Schwartz Laurent.** *Complex Analytic Manifolds. Elliptic Equations with Partial Derivatives.* Translated from Spanish by A. S. Dynin. Edited by E. A. Gorin. Moscow, "Mir," 1964. 212 pp. (Mathematical Collection Library.) Bibliography: pp. 178-179.

26. **El' sgol' ts L. E.** *Introduction to the Theory of Differential Equations with Deviating Argument.* Moscow, "Nauka," 1964. 127 pp. with illustrations. Bibliography: pp. 121-127. (108 titles).

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Note: Figure translations are in progress. See original paper for figures.