Selected Works of A. N. Kolmogorov

SELECTED WORKS OF A. N. KOLMOGOROV

Volume 1
Mathematics and Mechanics

Edited by

V. M. Tikhomirov

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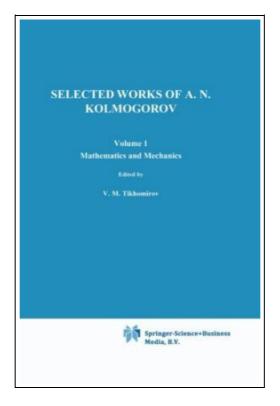
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Book Condition: New. Publisher/Verlag: Springer Netherlands | Volume I: Mathematics and Mechanics | The Praesidium of the USSR Academy of Sciences has decided to publish three volumes of Selected Works of A.N. Kolmogorov, one of the most prominent mathematicians of the 20th century. The creative work of A.N. Kolmogorov is exceptionally versatile. In his studies on trigonometric and orthogonal series, theory of measure and inte gral, mathematical logic, approximation theory, geometry, topology, functional analysis, classical mechanics, ergodic theory, superposition of functions, and in formation theory, many conceptual and fundamental problems were solved and new questions were posed which gave rise to a great number of investigations. A.N. Kolmogorov is one of the founders of the Soviet school of probability theory, mathematical statistics, and the theory of turbulence. In these areas he obtained a number of basic results, with many applications to mechanics, geophysics, linguistics, biology and other branches of knowledge. This edition includes the most important papers by A.N. Kolmogorov on mathematics and natural science. It does not include philosophical and ped agogical studies of A.N. Kolmogorov, his articles written for the "Bol'shaya Sov'etskaya Entsiklopediya", papers on prosody and various applications of mathematics and publications on general questions. The material of this edition was selected and grouped by A.N. Kolmogorov. | 1. A Fourier-Lebesgue series divergent almost everywhere.- 2. On the order of magnitude of the coefficients of Fourier-Lebesgue series.- 3. A remark on the study of the convergence of Fourier series.- 4. On convergence of Fourier series (in collaboration with G.A. Seliverstov).- 5. Axiomatic definition of the integral.- 6. On the limits of generalization of the integral.- 7. On the possibility of a general definition of derivative, integral and summation of divergent series.- 8. On conjugate harmonic functions and Fourier series.- 9. On the tertium non datur principle.- 10....

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