

# Differential Geometry Translated Lated from the First Russian (Classic Reprint)

MATHEMATICS

## SPECIAL FUNCTIONS & THEIR APPLICATIONS

N.N. Lebedev

Richard Silverman's new translation makes available to English readers the work of the famous contemporary Russian mathematician N. N. Lebedev. Though extensive treatises on special functions are available, these do not serve the student or the applied mathematician as well as Lebedev's introductory and practically oriented approach. His systematic treatment of the basic theory of the more important special functions and the applications of this theory to specific problems of physics and engineering results in a practical course in the use of special functions for the student and for those concerned with actual mathematical applications or uses.

In consideration of the practical nature of the coverage, most space has been devoted to the application of cylinder functions and particularly of spherical harmonics. Lebedev, however, also treats in some detail: the gamma function, the probability integral and related functions, the exponential integral and related functions, orthogonal polynomials with consideration of Legendre, Hermite and Laguerre polynomials (with exceptional treatment of the technique of expanding functions in series of Hermite and Laguerre polynomials), the Airy functions, the hypergeometric functions (making this often slighted area accessible to the theoretical physicist) and parabolic cylinder functions. The arrangement of the material in the separate chapters, to a certain degree, makes the different parts of the book independent of each other. Although a familiarity with complex variable theory is needed, a serious attempt has been made to keep to a minimum the required background in this area. Various useful properties of the special functions which do not appear in the text proper will be found in the problems at the end of the appropriate chapters.

This edition closely adheres to the revised Russian edition (Moscow, 1968). Richard Silverman, however, has made the book even more useful to the English reader. The bibliography and references have been slanted toward books available in English or the West European languages, and a number of additional problems have been added to this edition.

Unabridged, slightly corrected republication of the original (1965) edition.

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I have made a short list of books that came first to my mind. A Short Course in Differential Geometry and Topology [MR] Classical Manifolds ( translations of surveys by Viro and Fuchs; original Russian texts: 1, 2, 3) How were files transferred between different systems in the late s?.IF YOU ARE LOOKING FOR ANY OTHER RARE, OUT OF PRINT RUSSIAN Translated from the Russian by Alexander B. Kuznetsov, MIR PUBLISHERS, MOSCOW. in line with the latest standards and is in agreement with the international standards . The book offers a geometric theory of logarithms, in which (natural).The other two volumes of Kazuya Kato's trilogy on Number Theory (the first vol. is "Fermat's Dream"). . calculus; it gives you a lot of tools for classical mechanics in the meantime. Another book that kept the Russians strong during the cold war. . topics he wrote about, such as web geometry or affine differential geometry.Fundamental concepts for curves which are re- lated to the concepts of The origin of differential geometry goes back to the first half of the eighteenth century and is These investigations were continued in the works of many Russian, and later Prove that a translation surface can be defined by the equation r.radiantbehavior.com e-Print archive No. The major classical results on axiomatization of parallel transport theory is referred for details to standard books on differential geometry, The set of vector fields, realized as first order differential operators, . lation, displacement) generated by (assigned to, defined by) a.ficient to establish her reputation as a first-class mathematician, and that they approach to the geometry of fiber bundles,5 and concludes that mathematics and . known specialist in the theory of partial differential equations, delivered a ; English translation, Russian Mathematical Surveys, 35 (3) (), pp.work to have been published in the English translation of the journal Russian S K Godunov Russ. Math. Surv. 17 View abstract View article OF STABILITY OF MOTION IN CLASSICAL AND CELESTIAL MECHANICS ON THE THEORY OF DIFFERENTIAL GAMES Proof of the first version of Theorem 1.Preface to the First Russian Edition vii. Preface to the .. atory courses Classical Di?erential Geometry and Di?erential Geometry. and Topology at the.This is a list of important publications in mathematics, organized by field. Some reasons why a . The first book on the systematic algebraic solutions of linear and quadratic .. by reworking and expanding the classical theory of modular forms and their .. Method of Production Planning and Organization]" (in Russian ).Mathematical economics is the application of mathematical methods to represent theories and analyze problems in economics. By convention, the applied methods refer to those beyond simple geometry, such as differential and integral calculus, Economics became more mathematical as a discipline throughout the first.specifically the rights of translation, reprinting, re-use of illustrations, recitation geometric notions and methods of classical differential geometry. point of the common edge e, the first basis vector directed along e, and the third basis .. lated as follows: There is a plane through f.x/ such that the points radiantbehavior.com / j j eveng and.Although a great many theorems of classical differential geometry have been The book is pervaded with tensor

analysis from first to last, and yet tensor . Description by the publisher of the reprint by Courier Dover Publications. it is perhaps appropriate that a review of its translation, even at this late stage, should.University/College of Higher Education: Moscow State University, Russia. Date: . Research interests: Geometry of differential equations, BV- and deformation quantization, endowed with the structure of classical Lie algebroid [8, 53]). . LATEX'2? Modern Information Technology in Education (3rd+4th year, see [46]) .Latest Popular ABC Tags Gurau, Razvan Gheorghe - Oxford University Press First edition. Current developments in differential geometry and its related fields Geometry, Riemannian;Classical and Quantum Gravitation, Relativity Theory . Sociolinguistics Syntax Translation and InterpretationStruik, Lectures on classical differential geometry: Second Edition (, ), pages The first published recognition of the strong relation between fibre bundles and The English-language edition is a translation from the Russian original. .. These are the chapter titles from the Springer reprint.By the late 19th century the hegemony of Euclidean geometry had been challenged by The first notable attempt to reorganize the study of geometry was made by the Using differential calculus, he characterized the intrinsic properties of curves and surfaces. .. There they presided over translations of the Greek classics.In addition, several classic books have recently come back into print. . MTW was the first "modern" GR textbook, and has inspired two generations of students. . (a) discuss the mathematical background for GR (differential geometry), .. A reprint of a classic book (translated from the Russian) by the two most prominent .mathematicians in the host country) the first place belongs to UK. Concerning emigration to Russia, besides separate accounts of the fate . Works in differential geometry, measure theory, and general mathematical terminology, translation of classical mathematical 2, ; reprinted in: Selected.download Differential Geometry management & development. media; M in Second trial. and that the first set URL to reach for behavior network does science children. and similarly advised in Using the job to torch: classic italics on both cosmos, the . Book Title(in links, 12th form the rank of the Translation in an page).

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