

Operations and Actions of Lie Groups on Manifolds

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How to cite this paper: Akter, S., Moheuddin, M.Md., Hossain, S. and Khatun, A. (2020) Operations and Actions of Lie Groups on Manifolds. *American Journal of Computational Mathematics*, 10, 460-472. <https://doi.org/10.4236/ajcm.2020.103026>

Received: July 2, 2020

Accepted: September 24, 2020

Published: September 27, 2020

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Abstract

As recounted in this paper, the idea of groups is one that has evolved from some very intuitive concepts. We can do binary operations like adding or multiplying two elements and also binary operations like taking the square root of an element (in this case the result is not always in the set). In this paper, we aim to find the operations and actions of Lie groups on manifolds. These actions can be applied to the matrix group and Bi-invariant forms of Lie groups and to generalize the eigenvalues and eigenfunctions of differential operators on $\mathbb{R}^n$. A Lie group is a group as well as differentiable manifold, with the property that the group operations are compatible with the smooth structure on which group manipulations, product and inverse, are distinct. It plays an extremely important role in the theory of fiber bundles and also finds vast applications in physics. It represents the best-developed theory of continuous symmetry of mathematical objects and structures, which makes them indispensable tools for many parts of contemporary mathematics, as well as for modern theoretical physics. Here we did work flat out to represent the mathematical aspects of Lie groups on manifolds.

Keywords

Group (G), Abelian Group ($g_1 g_2 = g_2 g_1$), Subgroup (H is a Subgroup of G), Co-Sets (gH), Lie Groups ($G \times G \rightarrow G(x, y) \mapsto x \cdot y$ and $G \rightarrow G, g \mapsto g^{-1}$), Smooth Mapping ($\sigma: G \times G \rightarrow G$)

1. Introduction

In the present era, the study of the group related to the Lie group is essential for the sake of its comprehensive applications in several fields. Through the mathematical analysis, representations of groups on the manifold are vital due to its al-

Manifolds And Lie Groups

**V.V. Gorbatsevich, A.L. Onishchik, E.B.
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builds on some of the background developed in the first part offering an introduction to the theory of symmetric spaces a remarkable example of applications of Lie group theory to differential geometry The book emphasizes this aspect by surveying the fundamentals of Riemannian manifolds and by giving detailed explanations of the way in which geometry and Lie group theory come together A Course in Differential Geometry and Lie Groups S. Kumaresan,2002-01-15

Infinite-Dimensional Lie Groups Hideki Omori,2017-11-07 This book develops from the viewpoint of abstract group theory a general theory of infinite dimensional Lie groups involving the implicit function theorem and the Frobenius theorem Omori treats as infinite dimensional Lie groups all the real primitive infinite transformation groups studied by E Cartan The book discusses several noncommutative algebras such as Weyl algebras and algebras of quantum groups and their automorphism groups The notion of a noncommutative manifold is described and the deformation quantization of certain algebras is discussed from the viewpoint of Lie algebras This edition is a revised version of the book of the same title published in Japanese in 1979

Structure and Geometry of Lie Groups Joachim Hilgert,Karl-Hermann Neeb,2011-11-06 This self contained text is an excellent introduction to Lie groups and their actions on manifolds The authors start with an elementary discussion of matrix groups followed by chapters devoted to the basic structure and representation theory of finite dimensional Lie algebras They then turn to global issues demonstrating the key issue of the interplay between differential geometry and Lie theory Special emphasis is placed on homogeneous spaces and invariant geometric structures The last section of the book is dedicated to the structure theory of Lie groups Particularly they focus on maximal compact subgroups dense subgroups complex structures and linearity This text is accessible to a broad range of mathematicians and graduate students it will be useful both as a graduate textbook and as a research reference **Differential Geometry and Lie**

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sections that delve into more theoretical topics Differential Geometry and Lie Groups A Computational Perspective offers a uniquely accessible perspective on differential geometry for those interested in the theory behind modern computing applications Equally suited to classroom use or independent study the text will appeal to students and professionals alike only a background in calculus and linear algebra is assumed Readers looking to continue on to more advanced topics will appreciate the authors companion volume Differential Geometry and Lie Groups A Second Course An Introduction to

Differentiable Manifolds and Lie Groups Michele R. Lynch,1973

Invariant Function Spaces on Homogeneous

Manifolds of Lie Groups and Applications Mark L'vovich Agranovskiĭ,1993-01-01 This book studies translation invariant function spaces and algebras on homogeneous manifolds The central topic is the relationship between the homogeneous structure of a manifold and the class of translation invariant function spaces and algebras on the manifold The author obtains classifications of translation invariant spaces and algebras of functions on semisimple and nilpotent Lie groups Riemann symmetric spaces and bounded symmetric domains When such classifications are possible they lead in many cases to new characterizations of the classical function spaces from the point of view of their group of admissible changes of variable The algebra of holomorphic functions plays an essential role in these classifications when a homogeneous complex or CR structure exists on the manifold This leads to new characterizations of holomorphic functions and their boundary values for one and multidimensional complex domains **Lie Groups and Lie Algebras I** V.V. Gorbatsevich,A.L. Onishchik,E.B.

Vinberg,2013-12-01 From the reviews the book must be of great help for a researcher who already has some idea of Lie theory wants to employ it in his everyday research and or teaching and needs a source for customary reference on the subject From my viewpoint the volume is perfectly fit to serve as such a source On the whole it is quite a pleasure after making yourself comfortable in that favourite office armchair of yours just to keep the volume gently in your hands and browse it slowly and thoughtfully and after all what more on Earth can one expect of any book The New Zealand Mathematical Society Newsletter Both parts are very nicely written and can be strongly recommended European Mathematical Society **Foundation of Differentiable Manifolds and Lie Groups** Frank Wilson Warner,1971

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Chern classes The final chapter on Clifford algebras and Clifford groups draws the book to an algebraic conclusion which can be seen as a generalized viewpoint of the quaternions

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Manifolds and Lie Groups , Smooth Manifolds Claudio Gorodski, 2020-08-01 This concise and practical textbook presents the essence of the theory on smooth manifolds A key concept in mathematics smooth manifolds are ubiquitous They appear as Riemannian manifolds in differential geometry as space times in general relativity as phase spaces and energy levels in mechanics as domains of definition of ODEs in dynamical systems as Lie groups in algebra and geometry and in many other areas The book first presents the language of smooth manifolds culminating with the Frobenius theorem before discussing the language of tensors which includes a presentation of the exterior derivative of differential forms It then covers Lie groups and Lie algebras briefly addressing homogeneous manifolds Integration on manifolds explanations of Stokes theorem and de Rham cohomology and rudiments of differential topology complete this work It also includes exercises throughout the text to help readers grasp the theory as well as more advanced problems for challenge oriented minds at the end of each chapter Conceived for a one semester course on Differentiable Manifolds and Lie Groups which is offered by many graduate programs worldwide it is a valuable resource for students and lecturers alike

Lie Groups, Lie Algebras, and Representations Brian C. Hall, 2003-08-07 This book provides an introduction to Lie groups Lie algebras and representation theory aimed at graduate students in mathematics and physics Although there are already several excellent books that cover many of the same topics this book has two distinctive features that I hope will make it a useful addition to the literature First it treats Lie groups not just Lie algebras in a way that minimizes the amount of manifold theory needed Thus I neither assume a prior course on differentiable manifolds nor provide a condensed such course in the beginning chapters Second this book provides a gentle introduction to the machinery of semi simple groups and Lie algebras by treating the representation theory of $SU(2)$ and $SU(3)$ in detail before going to the general case This allows the reader to see roots weights and the Weyl group in action in simple cases before confronting the general theory The standard books on Lie theory begin immediately with the general case a smooth manifold that is also a group The Lie algebra is then defined as the space of left invariant vector fields and the exponential mapping is defined in terms of the flow along such vector fields This approach is undoubtedly the right one in the long run but it is rather abstract for a reader encountering such things for the first time

Matrix Inequalities and Their Extensions to Lie Groups Tin-Yau Tam, Xuhua Liu, 2018-03-14 **Matrix Inequalities and Their Extensions to Lie Groups** gives a systematic and updated account of recent important extensions of classical matrix results especially matrix inequalities in the context of Lie

groups It is the first systematic work in the area and will appeal to linear algebraists and Lie group researchers

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