

A portrait of Sophus Lie, a man with a full beard and glasses, wearing a dark suit and a white shirt with a dark bow tie. The portrait is set against a light yellow background and is partially obscured by the text on the left.

Sophus Lie

Theory of Transformation Groups I

General Properties
of Continuous Transformation Groups.
A Contemporary Approach
and Translation

Editor and Translator:
Joël Merker

 Springer

Theory Of Transformation Groups

T. Tom Dieck



Theory Of Transformation Groups:

Theory of Transformation Groups I Sophus Lie, 2015-03-12 This modern translation of Sophus Lie's and Friedrich Engel's *Theorie der Transformationsgruppen I* will allow readers to discover the striking conceptual clarity and remarkably systematic organizational thought of the original German text. Volume I presents a comprehensive introduction to the theory and is mainly directed towards the generalization of ideas drawn from the study of examples. The major part of the present volume offers an extremely clear translation of the lucid original. The first four chapters provide not only a translation but also a contemporary approach which will help present day readers to familiarize themselves with the concepts at the heart of the subject. The editor's main objective was to encourage a renewed interest in the detailed classification of Lie algebras in dimensions 1, 2 and 3 and to offer access to Sophus Lie's monumental Galois theory of continuous transformation groups established at the end of the 19th Century. Lie groups are widespread in mathematics playing a role in representation theory, algebraic geometry, Galois theory, the theory of partial differential equations and also in physics for example in general relativity. This volume is of interest to researchers in Lie theory and exterior differential systems and also to historians of mathematics. The prerequisites are a basic knowledge of differential calculus, ordinary differential equations and differential geometry.

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Transformation Groups and Representation Theory T. Tom Dieck, 2006-11-15 **The Theory of Transformation Groups** Katsuo Kawakubo, Professor Department of Mathematics Katsuo Kawakubo, 1991 The aim of this book is to present an introduction to the theory of transformation groups which will be suitable for all those coming to the subject for the first time. The emphasis is on the study of topological groups and in particular the study of compact Lie groups acting on manifolds. Throughout much care is taken to illustrate concepts and results with examples and applications.

Numerous exercises are also included to further extend a reader's understanding and knowledge. Prerequisites are a familiarity with algebra and topology as might have been acquired from an undergraduate degree in Mathematics. The author begins by introducing the basic concepts of the subject such as fixed point sets, orbits, and induced transformation groups. Attention then turns to the study of differentiable manifolds and Lie groups with particular emphasis on fibre bundles and characteristic classes. The latter half of the book is devoted to surveying the main themes of the subject: structure and decomposition theorems, the existence and uniqueness theorems of principal orbits, transfer theorems, and the Lefschetz fixed point theorem.

The Theory of Transformation Groups C. H. Chapman, 1893

A Global Formulation of the Lie Theory of Transformation Groups Richard S. Palais, 1961

Transformation Groups and Algebraic K-Theory Wolfgang Luck, 2014-09-01

Cohomology Theory of Topological Transformation Groups W.Y. Hsiang, 2012-12-06

Historically, applications of algebraic topology to the study of topological transformation groups were originated in the work of L. E. J. Brouwer on periodic transformations and a little later in the beautiful fixed point theorem of P. A. Smith for prime periodic maps on homology spheres. Upon comparing the fixed point theorem of Smith with its predecessors, the fixed point theorems of Brouwer and Lefschetz, one finds that it is possible, at least for the case of homology spheres, to upgrade the conclusion of mere existence or non-existence to the actual determination of the homology type of the fixed point set if the map is assumed to be prime periodic. The pioneer result of P. A. Smith clearly suggests a fruitful general direction of studying topological transformation groups in the framework of algebraic topology. Naturally, the immediate problems following the Smith fixed point theorem are to generalize it both in the direction of replacing the homology spheres by spaces of more general topological types and in the direction of replacing the group \mathbb{Z} by more general compact groups.

Introductory Treatise on Lie's Theory of Finite Continuous Transformation Groups John Edward Campbell, 1903

Transformation Groups Tammo tom Dieck, 2011-04-20

This book is a jewel; it explains important, useful, and deep topics in Algebraic Topology that you won't find elsewhere, carefully and in detail.

Prof. Günter M. Ziegler, TU Berlin

Introductory Treatise on Lie's Theory of Finite Continuous Transformation Groups John Edward Campbell, 1903

Transformation Groups Applied to Mathematical Physics Nail H. Ibragimov, 1984-12-31

Approach your problems from the right. It isn't that they can't see the solution; it's that they can't see the problem. One day, perhaps, you will find the final question.

G. K. Chesterton, *The Scandal of Father Brown*, *The Point of a Pin*, *The Hermit*, *Clad in Crane Feathers*

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Algebraic Transformation Groups and Algebraic Varieties Vladimir Leonidovich Popov,2013-06-29 The book covers topics in the theory of algebraic transformation groups and algebraic varieties which are very much at the frontier of mathematical research *Introductory Treatise on Lie's Theory of Finite Continuous Transformation Groups* John Edward Campbell,1908 **Transformation Groups Applied to Mathematical Physics** Nail H. Ibragimov,2001-11-30 Approach

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Proceedings of the Conference on Transformation Groups P. S. Mostert,2012-12-06 These Proceedings contain articles based on the lectures and in formal discussions at the Conference on Transformation Groups held at Tulane

University May 8 to June 2 1967 under the sponsorship of the Advanced Science Seminar Projects of the National Science Foundation Contract No GZ 400 They differ however from many such Conference proceedings in that particular emphasis has been given to the review and exposition of the state of the theory in its various manifestations and the suggestion of direction to further research rather than purely on the publication of research papers That is not to say that there is no new material contained herein On the contrary there is an abundance of new material many new ideas new questions and new conjectures are fully incorporated within the framework of the theory as the various authors see it An original objective of the Conference and of this report was to supply a much needed review of and supplement to the theory since the publication of the three standard works MONTGOMERY and ZIPPIN Topological Transformation Groups Interscience Publishers 1955 BOREL et al Seminar on Transformation Groups Annals of Math Surveys 1960 and CONNER and FLOYD Differential Periodic Maps Springer Verlag 1964 Considering this objective ambitious enough it was decided to limit the survey to that part of Transformation Group Theory derived from the Montgomery School

Bulletin (new Series) of the American Mathematical Society ,1895 Theory of Differential Equations Andrew Russell Forsyth,1906

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