INTRODUCTION TO COMPACT TRANSFORMATION GROUPS

Volume 46

Glen E. Bredon

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Introduction to Compact Transformation Groups- 1972-09-29 Introduction to Compact Transformation Groups

Locally Compact Transformation Groups and C^*-Algebras-Edward G. Effros 1967

Locally Compact Transformation Groups and C*-algebras-Edward G. Effros 1967

Topological Transformation Groups-Deane Montgomery 2018-06-13 An advanced monograph on the subject of topological transformation groups, this volume summarizes important research conducted during a period of lively activity in this area of mathematics. The book is of particular note because it represents the culmination of research by authors Deane Montgomery and Leo Zippin, undertaken in collaboration with Andrew Gleason of Harvard University, that led to their solution of a well-known mathematical conjecture, Hilbert's Fifth Problem. The treatment begins with an examination of topological spaces and groups and proceeds to locally compact groups and groups with no small subgroups. Subsequent chapters address approximation by Lie groups and transformation groups, concluding with an exploration of compact transformation groups.

Seminar on Transformation Groups-Armand Borel 1960 The description for this book, Seminar on Transformation Groups. (AM-46), Volume 46, will be forthcoming.

Transformation Groups and Representation Theory-T. Tom Dieck 2006-11-15

Transformation Groups for Beginners-Sergeĭ Vasilʹevich Duzhin 2004 This book is intended for undergraduate students and all those interested in mathematics. Its goal is to give an easy introduction to the concept of a transformation group using examples from different areas of mathematics. The warm-up of the first two chapters includes a discussion of algebraic operations on points in the plane, and of Euclidean plane movements. Then the notions of a transformation group and of an abstract group are introduced. Group actions, orbits, and invariants constitute the subject of the next chapter. The book concludes with an elementary exposition of the basic ideas of Sophus Lie about symmetries of differential equations. The book contains plenty of figures, as well as many exercises with hints and solutions, which help the reader to master the material.

Transformation Groups in Differential Geometry-Shoshichi Kobayashi 2012-12-06 Given a mathematical structure, one of the basic associated mathematical objects is its automorphism group. The object of this book is to give a biased account of automorphism groups of differential geometric struc tures. All geometric structures are not created equal; some are creations of ~ods while others are products of lesser human minds. Amongst the former, Riemannian and complex structures stand out for their beauty and wealth. A major portion of this book is therefore devoted to these two structures. Chapter I describes a general theory of automorphisms of geometric structures with emphasis on the question of when the automorphism group can be given a Lie group structure. Basic theorems in this regard are presented in §§ 3, 4 and 5. The concept of G-structure or that of pseudo-group structure enables us to treat most of the interesting geo metric structures in a unified manner. In § 8, we sketch the relationship between the two concepts. Chapter I is so arranged that the reader who is primarily interested in Riemannian, complex, conformal and projective structures can skip §§ 5, 6, 7 and 8. This chapter is partly based on lec tures I gave in Tokyo and Berkeley in 1965.

The Theory of Transformation Groups-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 undergraduatedegree 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 halfof 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.

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. 1. Brouwer on periodic transformations and, a little later, in the beautiful fixed point theorem ofP. 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 tl by more general compact groups.

Introduction to Topological Groups-Taqdir Husain 2018-02-15 Concise treatment covers semitopological groups, locally compact groups, Harr measure, and duality theory and some of its applications. The volume

concludes with a chapter that introduces Banach algebras. 1966 edition.

The Theory of Transformation Groups-Katsuo Kawakubo 1991 This book presents an introduction to the theory of transformation groups with emphasis on the study of topological groups and the compact Lie groups acting on manifolds.

Concentration Compactness-Kyril Tintarev 2007 Concentration compactness is an important method in mathematical analysis which has been widely used in mathematical research for two decades. This unique volume fulfills the need for a source book that usefully combines a concise formulation of the method, a range of important applications to variational problems, and background material concerning manifolds, non-compact transformation groups and functional spaces. Highlighting the role in functional analysis of invariance and, in particular, of non-compact transformation groups, the book uses the same building blocks, such as partitions of domain and partitions of range, relative to transformation groups, in the proofs of energy inequalities and in the weak convergence lemmas.

General Topology and Homotopy Theory-I.M. James 2012-12-06 Students of topology rightly complain that much of the basic material in the subject cannot easily be found in the literature, at least not in a convenient form. In this book I have tried to take a fresh look at some of this basic material and to organize it in a coherent fashion. The text is as self-contained as I could reasonably make it and should be quite accessible to anyone who has an elementary knowledge of point-set topology and group theory. This book is based on a course of 16 graduate lectures given at Oxford and elsewhere from time to time. In a course of that length one cannot discuss too many topics without being unduly superficial. However, this was never intended as a treatise on the subject but rather as a short introductory course which will, I hope, prove useful to specialists and non-specialists alike. The introduction contains a description of the contents. No algebraic or differen tial topology is involved, although I have borne in mind the needs of students of those branches of the subject. Exercises for the reader are scattered throughout the text, while suggestions for further reading are contained in the lists of references at the end of each chapter. In most cases these lists include the main sources I have drawn on, but this is not the type of book where it is practicable to give a reference for everything.

Proceedings of the Second Conference on Compact Transformation Groups-Conference on Compact Transformation Groups 1972

Transformation Groups-Tammo tom Dieck 1987-01-01 "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

Proceedings of the ... Conference on Compact Transformation Groups- 1968

Compact Connected Lie Transformation Groups on Spheres with Low Cohomogeneity, I-Eldar Straume 1996 This text is aimed at researchers studying Lie transformation groups.

Transformation Groups-Katsuo Kawakubo 1989

Geometry of Dihedral Transformation Groups-Eldar Jens Straume 1978

Transformation Groups and Representation Theory-T. Tom Dieck 1979-11

Proceedings of the Second Conference on Compact Transformation Groups. University of Massachusetts, Amherst, 1971-H. T Ku 1972-12-11

Bulletin of the Institute of Mathematics, Academia Sinica-Zhong yang yan jiu yuan. Shu xue yan jiu suo 1979

Introduction to Compact Riemann Surfaces and Dessins D'Enfants-Ernesto Girondo 2012 An elementary account of the theory of compact Riemann surfaces and an introduction to the Belyi-Grothendieck theory of dessins d'enfants.

Differential Geometry-David E. Blair 1976

Bulletin of the American Mathematical Society-American Mathematical Society 1989

Quantum Theory, Groups and Representations-Peter Woit 2017-11-01 This text systematically presents the basics of quantum mechanics, emphasizing the role of Lie groups, Lie algebras, and their unitary representations. The mathematical structure of the subject is brought to the fore, intentionally avoiding significant overlap with material from standard physics courses in quantum mechanics and quantum field theory. The level of presentation is attractive to mathematics students looking to learn about both quantum mechanics and representation theory, while also appealing to physics students who would like to know more about the mathematics underlying the subject. This text showcases the numerous differences between typical mathematical and physical treatments of the subject. The latter portions of the book focus on central mathematical objects that occur in the Standard Model of particle physics, underlining the deep and intimate connections between mathematics and the physical world. While an elementary physics course of some kind would be helpful to the reader, no specific background in physics is assumed, making this book accessible to students with a grounding in multivariable calculus and linear algebra. Many exercises are provided to develop the reader's understanding of and facility in quantum-theoretical concepts and calculations.

The Group of Orbit Preserving G-homeomorphisms of an Equivariant Simplex for G-Roman Goebel 2005

Hiroshima Mathematical Journal- 1981

The Michigan Mathematical Journal- 1986

Science Reports of Niigata University-Niigata Daigaku. Rigakubu 1979

Geometric and Algebraic Topology-Henryk Toruńczyk 1986

Annales Academiae Scientiarum Fennicae- 1995

Locally Compact Groups-Markus Stroppel 2006 Locally compact groups play an important role in many areas of mathematics as well as in physics. The class of locally compact groups admits a strong structure theory, which

allows to reduce many problems to groups constructed in various ways from the additive group of real numbers, the classical linear groups and from finite groups. The book gives a systematic and detailed introduction to the highlights of that theory. In the beginning, a review of fundamental tools from topology and the elementary theory of topological groups and transformation groups is presented. Completions, Haar integral, applications to linear representations culminating in the Peter-Weyl Theorem are treated. Pontryagin duality for locally compact Abelian groups forms a central topic of the book. Applications are given, including results about the structure of locally compact Abelian groups, and a structure theory for locally compact rings leading to the classification of locally compact fields. Topological semigroups are discussed in a separate chapter, with special attention to their relations to groups. The last chapter reviews results related to Hilbert's Fifth Problem, with the focus on structural results for non-Abelian connected locally compact groups that can be derived using approximation by Lie groups. The book is self-contained and is addressed to advanced undergraduate or graduate students in mathematics or physics. It can be used for one-semester courses on topological groups, on locally compact Abelian groups, or on topological algebra. Suggestions on course design are given in the preface. Each chapter is accompanied by a set of exercises that have been tested in classes.

Mathematics of the USSR.- 1990

Preprint Series-Universitetet i Oslo. Matematisk institutt 1973

Pacific Journal of Mathematics- 1986

Library of Congress Catalogs-Library of Congress 1976

Proper Real Analytic Actions of Lie Groups on Manifolds-Marja Kankaanrinta 1991

Russian Mathematics- 1996