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Transformation Groups for Beginners

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Transformation Groups For Beginners Transformation Groups For Beginners

Jean-Pierre Marquis



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Transformation Groups for Beginners Sergeĭ Vasil'evich Duzhin, Boris Dmitrievich Chebotarevskii, 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

Library of Congress Subject Headings Library of Congress, 2010

CRC Handbook of Lie Group Analysis of Differential Equations, Volume I Nail H. Ibragimov, 2023-08-25 Today Lie group theoretical approach to differential equations has been extended to new situations and has become applicable to the majority of equations that frequently occur in applied sciences Newly developed theoretical and computational methods are awaiting application Students and applied scientists are expected to understand these methods Volume 3 and the accompanying software allow readers to extend their knowledge of computational algebra Written by the world's leading experts in the field this up to date sourcebook covers topics such as Lie Bäcklund conditional and non classical symmetries approximate symmetry groups for equations with a small parameter group analysis of differential equations with distributions integro differential equations recursions and symbolic software packages The text provides an ideal introduction to the modern group analysis and addresses issues to both beginners and experienced researchers in the application of Lie group methods

From a Geometrical Point of View Jean-Pierre Marquis, 2008-11-20 From a Geometrical Point of View explores historical and philosophical aspects of category theory trying therewith to expose its significance in the mathematical landscape The main thesis is that Klein's Erlangen program in geometry is in fact a particular instance of a general and broad phenomenon revealed by category theory The volume starts with Eilenberg and Mac Lane's work in the early 1940's and follows the major developments of the theory from this perspective Particular attention is paid to the philosophical elements involved in this development The book ends with a presentation of categorical logic some of its results and its significance in the foundations of mathematics From a Geometrical Point of View aims to provide its readers with a conceptual perspective on category theory and categorical logic in order to gain insight into their role and nature in contemporary mathematics It should be of interest to mathematicians logicians philosophers of

mathematics and science in general historians of contemporary mathematics physicists and computer scientists

Introduction to Computer Graphics Frank Klawonn, 2008-02-07 This book provides an introduction to the most important basic concepts of computer graphics It couples the technical background and theory immediately with practical examples and applications The reader can follow up the theory and then literally see the theory at work in numerous example programs With only elementary knowledge of the programming language Java the reader will be able to create his or her own images and animations immediately using Java 2D and Java 3D A website for this book includes programs with source code exercises with solutions and slides as teaching material

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Group Actions on Manifolds Reinhard Schultz, 1985 Presents an understanding of the sorts of problems one studies in group actions and the methods used to study such problems This book features articles based upon lectures at the 1983 AMS IMS SIAM Joint Summer Research Conference Group Actions on Manifolds held at the University of Colorado

Analysis and Algebra on Differentiable Manifolds Pedro M. Gadea, Jaime Muñoz Masqué, Ihor V. Mykytyuk, 2012-12-30 This is the second edition of this best selling problem book for students now containing over 400 completely solved exercises on differentiable manifolds Lie theory fibre bundles and Riemannian manifolds The exercises go from elementary computations to rather sophisticated tools Many of the definitions and theorems used throughout are explained in the first section of each chapter where they appear A 56 page collection of formulae is included which can be useful as an aide mmoire even for teachers and researchers on those topics In this 2nd edition 76 new problems a section devoted to a generalization of Gauss Lemma a short novel section dealing with some properties of the energy of Hopf vector fields an expanded collection of formulae and tables an extended bibliography Audience This book will be useful to advanced undergraduate and graduate students of mathematics theoretical physics and some branches of engineering with a rudimentary knowledge of linear and multilinear algebra

Equivalence, Invariants and Symmetry Peter J. Olver, 1995-06-30 Drawing on a wide range of mathematical disciplines including geometry analysis applied mathematics and algebra this book presents an innovative synthesis of methods used to study problems of equivalence and symmetry which arise in a variety of mathematical fields and physical applications Systematic and constructive methods for solving equivalence problems and calculating symmetries are developed and applied to a wide variety of mathematical systems including differential equations variational problems manifolds Riemannian metrics polynomials and differential operators Particular emphasis is given to the construction and classification of invariants and to the reductions of complicated objects to simple canonical forms This book will be a valuable resource for students and researchers in geometry analysis algebra mathematical physics and other related fields

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