



The Geometry of Infinite-Dimensional Groups

By Boris Khesin

Springer. Paperback. Book Condition: New. Paperback. 304 pages. Dimensions: 9.3in. x 6.1in. x 0.7in.The aim of this monograph is to give an overview of various classes of inni- dimensional Lie groups and their applications, mostly in Hamiltonian - chanics, uid dynamics, integrable systems, and complex geometry. We have chosen to present the unifying ideas of the theory by concentrating on specic typesandexamplesofinnite-dimensionalLiegroups. Ofcourse, theselection of the topics is largely inuenced by the taste of the authors, but we hope

thatthisselectioniswideenoughtodescribevariousphenomenaarisinginthe geometry of innite-dimensional Lie groups and to convince the reader that they are appealing objects to study from both purely mathematical and more applied points of view. This book can be thought of as complementary to the existing more algebraic treatments, in particular, those covering the str- ture and representation theory of innite-dimensional Lie algebras, as well as to more analytic ones developing calculus on innite-dimensional manifolds. This monograph originated from advanced graduate courses and mi- courses on innite-dimensional groups and gauge theory given by the rst author at the University of Toronto, at the CIRM in Marseille, and at the Ecole Polytechnique in Paris in 20012004. It is based on various classical and recentresultsthathaveshapedthisnewlyemergedpartofinnite-dimensional geometry and group theory. Our...



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