



# Introduction To Compact Lie Groups (Series in Pure Mathematics)

Howard D Fegan

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### **Introduction To Compact Lie Groups (Series in Pure Mathematics**)

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There are two approaches to compact lie groups: by computation as matrices or theoretically as manifolds with a group structure. The great appeal of this book is the blending of these two approaches. The theoretical results are illustrated by computations and the theory provides a commentary on the computational work. Indeed, there are extensive computations of the structure and representation theory for the classical groups Su(n), So(n) and Sp(n). A second exciting feature is that the differential geometry of a compact Lie group, both the classical curvature studies and the more recent heat equation methods, are treated. A large number of formulas for the connection and curvature are conveniently gathered together. This book provides an excellent text for a first course in compact Lie groups.



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