

Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics)

Sigurdur Helgason



Click here if your download doesn"t start automatically

Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics)

Sigurdur Helgason

Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) Sigurdur Helgason

The study of homogeneous spaces provides excellent insights into both differential geometry and Lie groups. In geometry, for instance, general theorems and properties will also hold for homogeneous spaces, and will usually be easier to understand and to prove in this setting. For Lie groups, a significant amount of analysis either begins with or reduces to analysis on homogeneous spaces, frequently on symmetric spaces. For many years and for many mathematicians, Sigurdur Helgason's classic Differential Geometry, Lie Groups, and Symmetric Spaces has been--and continues to be--the standard source for this material.

Helgason begins with a concise, self-contained introduction to differential geometry. He then introduces Lie groups and Lie algebras, including important results on their structure. This sets the stage for the introduction and study of symmetric spaces, which form the central part of the book. The text concludes with the classification of symmetric spaces by means of the Killing-Cartan classification of simple Lie algebras over $\$ mathbf{C}\$ and Cartan's classification of simple Lie algebras over $\$ mathbf{R}.

The excellent exposition is supplemented by extensive collections of useful exercises at the end of each chapter. All the problems have either solutions or substantial hints, found at the back of the book.

For this latest edition, Helgason has made corrections and added helpful notes and useful references. The sequels to the present book are published in the AMS's Mathematical Surveys and Monographs Series: Groups and Geometric Analysis, Volume 83, and Geometric Analysis on Symmetric Spaces, Volume 39.

Sigurdur Helgason was awarded the Steele Prize for Differential Geometry, Lie Groups, and Symmetric Spaces and Groups and Geometric Analysis.

<u>Download</u> Differential Geometry, Lie Groups, and Symmetric S ...pdf

<u>Read Online Differential Geometry, Lie Groups, and Symmetric ...pdf</u>

From reader reviews:

Bryan Smith:

This Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) usually are reliable for you who want to be considered a successful person, why. The key reason why of this Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) can be among the great books you must have is usually giving you more than just simple reading through food but feed you actually with information that might be will shock your earlier knowledge. This book is handy, you can bring it almost everywhere and whenever your conditions in the e-book and printed kinds. Beside that this Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) forcing you to have an enormous of experience such as rich vocabulary, giving you tryout of critical thinking that we all know it useful in your day action. So , let's have it and luxuriate in reading.

Marcos Anderson:

The particular book Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) has a lot of knowledge on it. So when you check out this book you can get a lot of help. The book was authored by the very famous author. The writer makes some research just before write this book. That book very easy to read you may get the point easily after reading this article book.

Fred Dean:

Do you like reading a publication? Confuse to looking for your favorite book? Or your book ended up being rare? Why so many concern for the book? But just about any people feel that they enjoy intended for reading. Some people likes reading through, not only science book but also novel and Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) or maybe others sources were given information for you. After you know how the good a book, you feel wish to read more and more. Science reserve was created for teacher or even students especially. Those publications are helping them to add their knowledge. In additional case, beside science guide, any other book likes Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) to make your spare time considerably more colorful. Many types of book like here.

Margarito Rone:

Publication is one of source of know-how. We can add our know-how from it. Not only for students but in addition native or citizen have to have book to know the revise information of year to year. As we know those guides have many advantages. Beside we add our knowledge, could also bring us to around the world. From the book Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) we can take more advantage. Don't someone to be creative people? Being creative person must like to read a book. Only choose the best book that appropriate with your aim. Don't possibly be doubt to change your life with that book Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies

in Mathematics). You can more appealing than now.

Download and Read Online Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) Sigurdur Helgason #Q4R17INX8KV

Read Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) by Sigurdur Helgason for online ebook

Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) by Sigurdur Helgason Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) by Sigurdur Helgason books to read online.

Online Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) by Sigurdur Helgason ebook PDF download

Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) by Sigurdur Helgason Doc

Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) by Sigurdur Helgason Mobipocket

Differential Geometry, Lie Groups, and Symmetric Spaces (Graduate Studies in Mathematics) by Sigurdur Helgason EPub