

Textbook: Lie Groups: An Introduction Through Linear Groups, Wulf Rossmann, Oxford Graduate Texts in Mathematics, Oxford University Press Inc., New York.

Reference Books:

1. Naive Lie Theory, John Stillwell, Springer, 2008.
2. Matrix Groups: An Introduction to Lie Group Theory, Andrew Baker, Springer, 2003.
3. Lie Groups, Lie Algebras, and Representations: an Elementary Introduction, Brian C. Hall, Springer, 2004.
4. Lie Groups: An Approach through Invariants and Representations, Claudio Procesi, Springer, 2006.
5. Lie Groups Beyond an Introduction, Anthony W. Knap, Birkhäuser, 2002.
6. Differential Geometry, Lie Groups, and Symmetric Spaces, Sigurdur Helgason, American Mathematical Society, 2001.

Recommended Reading:

Roger Howe, Very Basic Lie Theory, American Mathematical Monthly **91** (1984), no. 4, 247.

Lie Groups on wikipedia

Bibliography

- [1] Roger Howe, *Very Basic Lie Theory*, *American Mathematical Monthly* **91** (1984), no. 4, 247.
- [2] James E. Humphreys, *Introduction to Lie Algebras and Representation Theory*, Springer.
- [3] Anthony W. Knap, *Lie Groups Beyond an Introduction*, Birkhäuser.