Complex Semisimple Lie Algebras

By Serre, Jean-Pierre / Jones, Glen A.

Book Condition: New. Publisher/Verlag: Springer, Berlin | These short notes, already well-known in their original French edition, present the basic theory of semisimple Lie algebras over the complex numbers. The author begins with a summary of the general properties of nilpotent, solvable, and semisimple Lie algebras. Subsequent chapters introduce Cartan subalgebras, root systems, and linear representations. The last chapter discusses the connection between Lie algebras, complex groups and compact groups. The book is intended to guide the reader towards further study. | I Nilpotent Lie Algebras and Solvable Lie Algebras.- 1. Lower Central Series.- 2. Definition of Nilpotent Lie Algebras.- 3. An Example of a Nilpotent Algebra.- 4. Engel's Theorems.- 5. Derived Series.- 6. Definition of Solvable Lie Algebras.- 7. Lie's Theorem.- 8. Cartan's Criterion.- II Semisimple Lie Algebras (General Theorems).- 1. Radical and Semisimpiicity.- 2. The Cartan-Killing Criterion.- 3. Decomposition of Semisimple Lie Algebras.- 4. Derivations of Semisimple Lie Algebras.- 5. Semisimple Elements and Nilpotent Elements.- 6. Complete Reducibility Theorem.- 7. Complex Simple Lie Algebras.- 8. The Passage from Real to Complex.- III Cartan Subalgebras.- 1. Definition of Cartan Subalgebras.- 2. Regular Elements: Rank.- 3. The Cartan Subalgebra Associated with a Regular Element.- 4. Conjugacy of Cartan Subalgebras.- 5....

READ ONLINE
[4.66 MB]

Reviews

This type of ebook is every little thing and made me looking ahead of time and more. It is among the most amazing book i actually have read through. Its been designed in an exceptionally simple way in fact it is simply soon after i finished reading through this pdf in which actually transformed me, change the way i believe.
-- Dr. Ron Kovacek

Completely among the finest pdf I actually have ever read through. it was actually writtern extremely completely and beneficial. Once you begin to read the book, it is extremely difficult to leave it before concluding.
-- Santos Metz

Other Kindle Books

Would It Kill You to Stop Doing That?

Book Condition: New. Publisher/Verlag: Little, Brown Book Group | A Modern Guide to Manners | A laugh-out-loud guide to modern manners by acclaimed humorist, author, and Vanity Fair columnist Henry Alford. | A few years ago, humorist and journalist Henry Alford found...

Violet Rose and the Surprise Party

Book Condition: New. Publisher/Verlag: Nosy Crow | With activities, 3D press-out models and over 175 stickers! Plus free games and printables online! | When busy rabbit, Violet Rose, discovers that her friend Lily has a birthday coming up, she and her buddies...

Spanky the Mouse (Paperback)

Createspace, United States, 2015. Paperback. Book Condition: New. 203 x 127 mm. Language: English . Brand New Book ***** Print on Demand *****.The biggest failure in life for any parent, or anyone raising a child is, if the Child grows up to...

Book Finds: How to Find, Buy, and Sell Used and Rare Books (Revised)

Perigee. PAPERBACK. Book Condition: New. 0399526544 Never Read-12+ year old Paperback book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship FAST with FREE tracking!! * I...

Words and Rhymes for Kids: A Fun Teaching Tool for High Frequency Words and Word Families (Paperback)

AUTHORHOUSE, United States, 2009. Paperback. Book Condition: New. 279 x 211 mm. Language: English . Brand New Book ***** Print on Demand *****.This book is designed to make learning fun for children in kindergarten through primary grades. It teaches recognition of high...

Questioning the Author Comprehension Guide, Grade 4, Story Town

HARCOURT SCHOOL PUBLISHERS. PAPERBACK. Book Condition: New. 0153592419 Brand new soft cover book. Soft cover books may show light shelf wear. Item ships within 24 hours with Free Tracking.