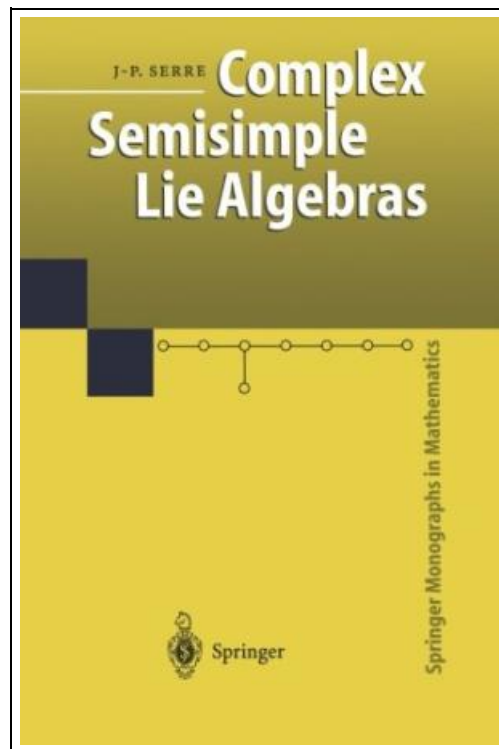# Complex Semisimple Lie Algebras

Filesize: 3.85 MB

Reviews

The book is fantastic and great. It is filled with wisdom and knowledge I am just easily will get a enjoyment of looking at a composed publication.

(Bradley Hahn)

COMPLEX SEMISIMPLE LIE ALGEBRAS

To read **Complex Semisimple Lie Algebras** eBook, you should access the button listed below and save the ebook or have access to additional information which are have conjunction with COMPLEX SEMISIMPLE LIE ALGEBRAS ebook.

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. The Semisimple Case.- 6. Real Lie Algebras.- IV The Algebra SI2 and Its Representations.- 1. The Lie Algebra sl2.- 2. Modules, Weights, Primitive Elements.- 3. Structure of the Submodule Generated by a Primitive Element.- 4. The Modules Wm.- 5. Structure of the Finite-Dimensional g-Modules.- 6. Topological Properties of the Group SL2.- V Root Systems.- 1. Symmetries.- 2. Definition of Root Systems.- 3. First Examples.- 4. The Weyl Group.- 5. Invariant Quadratic Forms.- 6. Inverse Systems.- 7. Relative Position of Two Roots.- 8. Bases.- 9. Some Properties of Bases.- 10. Relations with the Weyl Group.- 11. The Cartan Matrix.- 12. The...

⊕ Read Complex Semisimple Lie Algebras Online

⊡ Download PDF Complex Semisimple Lie Algebras

⊡ Download ePUB Complex Semisimple Lie Algebras

You May Also Like

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

Access the hyperlink listed below to download and read "Book Finds: How to Find, Buy, and Sell Used and Rare Books (Revised)" PDF document.

[Download ePub »](#)

[PDF] Questioning the Author Comprehension Guide, Grade 4, Story Town

Access the hyperlink listed below to download and read "Questioning the Author Comprehension Guide, Grade 4, Story Town" PDF document.

[Download ePub »](#)

[PDF] Childrens Educational Book Junior Vincent van Gogh A Kids Introduction to the Artist and his Paintings. Age 7 8 9 10 year-olds SMART READS for . - Expand Inspire Young Minds Volume 1

Access the hyperlink listed below to download and read "Childrens Educational Book Junior Vincent van Gogh A Kids Introduction to the Artist and his Paintings. Age 7 8 9 10 year-olds SMART READS for . - Expand Inspire Young Minds Volume 1" PDF document.

[Download ePub »](#)

[PDF] Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

Access the hyperlink listed below to download and read "Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)" PDF document.

[Download ePub »](#)

[PDF] Children s Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer

Access the hyperlink listed below to download and read "Children s Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer" PDF document.

[Download ePub »](#)

[PDF] TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

Access the hyperlink listed below to download and read "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" PDF document.

[Download ePub »](#)

[PDF] Baby Whale s Long Swim: Level 1

Access the link listed below to download and read "Baby Whale s Long Swim: Level 1" PDF file.

Save ePub »

[PDF] JA] early childhood parenting :1-4 Genuine Special(Chinese Edition)

Access the link listed below to download and read "JA] early childhood parenting :1-4 Genuine Special(Chinese Edition)" PDF file.

Save ePub »

[PDF] Read Write Inc. Phonics: Green Set 1 Storybook 4 the Spell

Access the link listed below to download and read "Read Write Inc. Phonics: Green Set 1 Storybook 4 the Spell" PDF file.

Save ePub »

[PDF] Fun to Learn Bible Lessons Preschool 20 Easy to Use Programs Vol 1 by Nancy Paulson 1993 Paperback

Access the link listed below to download and read "Fun to Learn Bible Lessons Preschool 20 Easy to Use Programs Vol 1 by Nancy Paulson 1993 Paperback" PDF file.

Save ePub »

[PDF] Read Write Inc. Phonics: Green Set 1 Non-Fiction 3 Let s Go!

Access the link listed below to download and read "Read Write Inc. Phonics: Green Set 1 Non-Fiction 3 Let s Go!" PDF file.

Save ePub »

[PDF] The Voyagers Series - Europe: A New Multi-Media Adventure Book 1

Access the link listed below to download and read "The Voyagers Series - Europe: A New Multi-Media Adventure Book 1" PDF file.

Save ePub »