# Lectures on Infinite-Dimensional Lie Algebra

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# **Lectures On Infinitedimensional Lie Algebra**

**Victor G Kac** 

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Rozhkovskaya, 2013 The second edition of this book incorporates as its first part the largely unchanged text of the first edition while its second part is the collection of lectures on vertex algebras delivered by Professor Kac at the TIFR in January 2003 The basic idea of these lectures was to demonstrate how the key notions of the theory of vertex algebras such as quantum fields their normal ordered product and lambda bracket energy momentum field and conformal weight untwisted and twisted representations simplify and clarify the constructions of the first edition of the book Cover Infinite-dimensional Lie Algebra Minoru Wakimoto, 2001 The representation theory of affine Lie algebras has been developed in close connection with various areas of mathematics and mathematical physics in the last two decades There are three excellent books on it written by Victor G Kac This book begins with a survey and review of the material treated in Kac s books In particular modular invariance and conformal invariance and are explained in more detail The book then goes further dealing with some of the recent topics involving the representation theory of affine Lie algebras Since these topics are important not only in themselves but also in their application to some areas of mathematics and mathematical physics the book expounds them with examples and detailed calculations Bombay Lectures on Highest Weight Representations of Infinite Dimensional Lie Algebras Victor G. Kac, A. K. Raina, 1987 This book is a collection of a series of lectures given by Prof V Kac at Tata Institute India in Dec 85 and Jan 86 These lectures focus on the idea of a highest weight representation which goes through four different incarnations The first is the canonical commutation relations of the infinite dimensional Heisenberg Algebra oscillator algebra The second is the highest weight representations of the Lie algebra gl of infinite matrices along with their applications to the theory of soliton equations discovered by Sato and Date Jimbo Kashiwara and Miwa The third is the unitary highest weight representations of the current affine Kac Moody algebras These algebras appear in the lectures twice in the reduction theory of soliton equations KP KdV and in the Sugawara construction as the main tool in the study of the fourth incarnation of the main idea the theory of the highest weight representations of the Virasoro algebra This book should be very useful for both mathematicians and physicists To mathematicians it illustrates the interaction of the key ideas of the representation theory of infinite dimensional Lie algebras and to physicists this theory is turning into an important component of such domains of theoretical physics as soliton theory theory of two dimensional statistical models and string theory **Bombay Lectures on Highest Weight Representations of Infinite Dimensional** Lie Algebras V. G. Kac, 1987 Infinite Dimensional Lie Algebras And Groups Victor G Kac, 1989-07-01 Contents Integrable Representation of Kac Moody Algebras Results and Open Problems V Chari A Pressley Existence of Certain Components in the Tensor Product of Two Integrable Highest Weight Modules for Kac Moody Algebras SKumar Frobenius Action on the B Cohomology O Mathieu Certain Rank Two Subsystems of Kac Moody Root Systems J Morita Lie Groups Associated to Kac Moody Lie Algebras An Analytic Approach E Rodriguez Carrington Almost Split K Forms of Kac Moody Algebras G Rousseau Global Representations of the Diffeomorphism Groups of the Circle F Bien Path Space Realization of

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will be especially useful to graduate students in Lie theory as well as to researchers in the field **Infinite Dimensional Lie Algebras and Groups** Victor G. Kac, 1989-01-01 **Infinite Dimensional Lie Transformation Groups** H. Group Theory And Hopf Algebras: Lectures For Physicists Aiyalam P Balachandran, Sang G Omori,1974-12-16 Jo, Giuseppe Marmo, 2010-07-22 This book is addressed to graduate students and research workers in theoretical physics who want a thorough introduction to group theory and Hopf algebras It is suitable for a one semester course in group theory or a two semester course which also treats advanced topics Starting from basic definitions it goes on to treat both finite and Lie groups as well as Hopf algebras Because of the diversity in the choice of topics which does not place undue emphasis on finite or Lie groups it should be useful to physicists working in many branches A unique aspect of the book is its treatment of Hopf algebras in a form accessible to physicists Hopf algebras are generalizations of groups and their concepts are acquiring importance in the treatment of conformal field theories noncommutative spacetimes topological quantum computation and other important domains of investigation But there is a scarcity of treatments of Hopf algebras at a level and in a manner that physicists are comfortable with This book addresses this need superbly There are illustrative examples from physics scattered throughout the book and in its set of problems It also has a good bibliography These features should enhance its value to readers The authors are senior physicists with considerable research and teaching experience in diverse aspects of fundamental physics The book being the outcome of their combined efforts stands testament to their knowledge and Lie Algebras of Finite and Affine Type Roger William Carter, 2005-10-27 This book provides a thorough pedagogical skills but relaxed mathematical treatment of Lie algebras *Quantum Group And Quantum Integrable Systems - Nankai Lectures* On Mathematical Physics Mo-lin Ge, 1992-05-30 This volume contains the lectures given by the three speakers M Jimbo P P Kulish and E K Sklyanin who are outstanding experts in their field It is essential reading to those working in the fields of Quantum Groups and Integrable Systems

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