



# Current Algebras On Riemann Surfaces Current Algebras On Riemann Surfaces

**G Orfield**



## **Current Algebras On Riemann Surfaces Current Algebras On Riemann Surfaces:**

**Current Algebras on Riemann Surfaces** Oleg K. Sheinman, 2012-10-01 This monograph is an introduction into a new and fast developing field on the crossroads of infinite dimensional Lie algebra theory and contemporary mathematical physics It contains a self consistent presentation of the theory of Krichever Novikov algebras Lax operator algebras their interaction representation theory relations to moduli spaces of Riemann surfaces and holomorphic vector bundles on them to Lax integrable systems and conformal field theory For beginners the book provides a short way to join in the investigations in these fields For experts it sums up the recent advances in the theory of almost graded infinite dimensional Lie algebras and their applications The book may serve as a base for semester lecture courses on finite dimensional integrable systems conformal field theory almost graded Lie algebras Majority of results are presented for the first time in the form of monograph

*Current Algebras and Groups* Jouko Mickelsson, 2013-03-09 Let  $M$  be a smooth manifold and  $G$  a Lie group In this book we shall study infinite dimensional Lie algebras associated both to the group  $\text{Map } M \rightarrow G$  of smooth mappings from  $M$  to  $G$  and to the group of diffeomorphisms of  $M$  In the former case the Lie algebra of the group is the algebra  $\text{Mg}$  of smooth mappings from  $M$  to the Lie algebra  $\mathfrak{g}$  of  $G$  In the latter case the Lie algebra is the algebra  $\text{Vect } M$  of smooth vector fields on  $M$  However it turns out that in many applications to field theory and statistical physics one must deal with certain extensions of the above mentioned Lie algebras In the simplest case  $M$  is the unit circle  $S^1$   $G$  is a simple finite dimensional Lie group and the central extension of  $\text{Map } S^1 \rightarrow \mathfrak{g}$  is an affine Kac Moody algebra The highest weight theory of finite dimensional Lie algebras can be extended to the case of an affine Lie algebra The important point is that  $\text{Map } S^1 \rightarrow \mathfrak{g}$  can be split to positive and negative Fourier modes and the finite dimensional piece  $\mathfrak{g}$  corresponding to the zero mode

**Krichever-Novikov Type Algebras** Martin Schlichenmaier, 2014-08-19 Krichever and Novikov introduced certain classes of infinite dimensional Lie algebras to extend the Virasoro algebra and its related algebras to Riemann surfaces of higher genus The author of this book generalized and extended them to a more general setting needed by the applications Examples of applications are Conformal Field Theory Wess Zumino Novikov Witten models moduli space problems integrable systems Lax operator algebras and deformation theory of Lie algebra Furthermore they constitute an important class of infinite dimensional Lie algebras which due to their geometric origin are still manageable This book gives an introduction for the newcomer to this exciting field of ongoing research in mathematics and will be a valuable source of reference for the experienced researcher Beside the basic constructions and results also applications are presented

**Topics in Topology and Mathematical Physics** Sergei Petrovich Novikov, 1995

**Conformal Field Theory** Philippe Francesco, Pierre Mathieu, David Senechal, 2012-12-06 Filling an important gap in the literature this comprehensive text develops conformal field theory from first principles The treatment is self contained pedagogical and exhaustive and includes a great deal of background material on quantum field theory statistical mechanics Lie algebras and affine Lie algebras The many exercises with a wide spectrum of difficulty and subjects

complement and in many cases extend the text The text is thus not only an excellent tool for classroom teaching but also for individual study Intended primarily for graduate students and researchers in theoretical high energy physics mathematical physics condensed matter theory statistical physics the book will also be of interest in other areas of theoretical physics and mathematics It will prepare the reader for original research in this very active field of theoretical and mathematical physics

**Lie Theory And Its Applications In Physics Iii - Proceedings Of The Third International Workshop** Vladimir K Dobrev,Heinz-dietrich Doebner,Joachim Hilgert,2000-09-29 This book is a comprehensive treatise on the theory and applications of moment functions in image analysis Moment functions are widely used in various realms of computer vision and image processing Numerous algorithms and techniques have been developed using image moments in the areas of pattern recognition object identification three dimensional object pose estimation robot sensing image coding and reconstruction This book provides a compilation of the theoretical aspects related to different types of moment functions and their applications in the above areas The book is organized into two parts The first part discusses the fundamental concepts behind important moments such as geometric moments complex moments Legendre moments Zernike moments and moment tensors Most of the commonly used properties of moment functions and the mathematical framework for the derivation of basic theorems and results are discussed in detail This includes the derivation of moment invariants implementation aspects of moments transform properties and fast methods for computing the moment functions for both binary and gray level images The second part presents the key application areas of moments such as pattern recognition object identification image based pose estimation edge detection clustering segmentation coding and reconstruction Important algorithms in each of these areas are discussed A comprehensive list of bibliographical references on image moments is also included *Lie Algebras, Lie Superalgebras, Vertex Algebras and Related Topics* Kailash C. Misra,Daniel K. Nakano,Brian J. Parshall,2016-06-28 This book contains the proceedings of the 2012 2014 Southeastern Lie Theory Workshop Series held at North Carolina State University in April 2012 at College of Charleston in December 2012 at Louisiana State University in May 2013 and at University of Georgia in May 2014 Some of the articles by experts in the field survey recent developments while others include new results in representations of Lie algebras and quantum groups vertex operator algebras and Lie superalgebras *Developments and Retrospectives in Lie Theory* Geoffrey Mason,Ivan Penkov,Joseph A. Wolf,2014-10-31 The Lie Theory Workshop founded by Joe Wolf UC Berkeley has been running for over two decades These workshops have been sponsored by the NSF noting the talks have been seminal in describing new perspectives in the field covering broad areas of current research At the beginning the top universities in California and Utah hosted the meetings which continue to run on a quarterly basis Experts in representation theory Lie theory from various parts of the US Europe Asia China Japan Singapore Russia Canada and South and Central America were routinely invited to give talks at these meetings Nowadays the workshops are also hosted at universities in Louisiana Virginia and Oklahoma The contributors to this volume have all

participated in these Lie theory workshops and include in this volume expository articles which cover representation theory from the algebraic geometric analytic and topological perspectives with also important connections to math physics These survey articles review and update the prominent seminal series of workshops in representation Lie theory mentioned above and reflects the widespread influence of those workshops in such areas as harmonic analysis representation theory differential geometry algebraic geometry number theory and mathematical physics Many of the contributors have had prominent roles in both the classical and modern developments of Lie theory and its applications

**New Problems, Methods and Techniques in Quantum Field Theory and Statistical Mechanics** Mario Rasetti, 1990 <http://www.worldscientific.com/worldscibooks/10.1142/1095>

**Algebraic Analysis** Masaki Kashiwara, Takahiro Kawai, 2014-05-10 Algebraic Analysis Papers Dedicated to Professor Mikio Sato on the Occasion of his 60th Birthday Volume II is a collection of research papers on algebraic analysis and related topics in honor to Professor Mikio Sato's 60th birthday This volume is divided into 29 chapters and starts with research works concerning the fundamentals of KP equations strings Schottky problem and the applications of transformation theory for nonlinear integrable systems to linear prediction problems and isospectral deformations The subsequent chapters contain papers on the approach to nonlinear integrable systems the Hodge numbers the stochastic differential equation for the multi dimensional weakly stationary process and a method of harmonic analysis on semisimple symmetric spaces These topics are followed by studies on the quantization of extended vortices moduli space for Fuchsian groups microfunctions for boundary value problems and the issues of multi dimensional integrable systems The remaining chapters explore the practical aspects of pseudodifferential operators in hyperfunction theory the elliptic solitons and Carlson's theorem for holomorphic functions This book will prove useful to mathematicians and advance mathematics students

*Geometric Methods in Physics* Piotr Kielanowski, S. Twareque Ali, Pierre Bieliavsky, Anatol Odziejewicz, Martin Schlichenmaier, Theodore Voronov, 2016-07-28 This book features a selection of articles based on the XXXIV Biaowie a Workshop on Geometric Methods in Physics 2015 The articles presented are mathematically rigorous include important physical implications and address the application of geometry in classical and quantum physics Special attention deserves the session devoted to discussions of Gerard Emch's most important and lasting achievements in mathematical physics The Biaowie a workshops are among the most important meetings in the field and gather participants from mathematics and physics alike Despite their long tradition the Workshops remain at the cutting edge of ongoing research For the past several years the Biaowie a Workshop has been followed by a School on Geometry and Physics where advanced lectures for graduate students and young researchers are presented The unique atmosphere of the Workshop and School is enhanced by the venue framed by the natural beauty of the Biaowie a forest in eastern Poland

Braid Group, Knot Theory And Statistical Mechanics Mo-lin Ge, Chen Ning Yang, 1991-06-05 Contents Notes on Subfactors and Statistical Mechanics V F R Jones Polynomial Invariants in Knot Theory L H Kauffman Algebras of Loops on Surfaces Algebras of Knots

and Quantization V G Turaev Quantum Groups L Faddeev et al Introduction to the Yang Baxter Equation M Jimbo Integrable Systems Related to Braid Groups and Yang Baxter Equation T Kohno The Yang Baxter Relation A New Tool for Knot Theory Y Akutsu et al Akutsu Wadati Link Polynomials from Feynman Kauffman Diagrams M L Ge et al Quantum Field Theory and the Jones Polynomial E Witten Readership Mathematical physicists Braid Group, Knot Theory And Statistical Mechanics Ii Chen Ning Yang, Mo-lin Ge, 1994-02-24 The present volume is an updated version of the book edited by C N Yang and M L Ge on the topics of braid groups and knot theory which are related to statistical mechanics This book is based on the 1989 volume but has new material included and new contributors **Mathematical Perspectives on Theoretical Physics** Nirmala Prakash, 2003 Readership Upper level undergraduates graduate students lecturers and researchers in theoretical mathematical and quantum physics **Infinite-Dimensional Lie Algebras** Victor G. Kac, 1990 The third substantially revised edition of a monograph concerned with Kac Moody algebras a particular class of infinite dimensional Lie algebras and their representations based on courses given over a number of years at MIT and in Paris **High Energy Physics Index**, 1991 *Harmonic and Complex Analysis and its Applications* Alexander Vasil'ev, 2013-11-09 This volume highlights the main results of the research performed within the network Harmonic and Complex Analysis and its Applications HCAA which was a five year 2007 2012 European Science Foundation Programme intended to explore and to strengthen the bridge between two scientific communities analysts with broad backgrounds in complex and harmonic analysis and mathematical physics and specialists in physics and applied sciences It coordinated actions for advancing harmonic and complex analysis and for expanding its application to challenging scientific problems Particular topics considered by this Programme included conformal and quasiconformal mappings potential theory Banach spaces of analytic functions and their applications to the problems of fluid mechanics conformal field theory Hamiltonian and Lagrangian mechanics and signal processing This book is a collection of surveys written as a result of activities of the Programme and will be interesting and useful for professionals and novices in analysis and mathematical physics as well as for graduate students Browsing the volume the reader will undoubtedly notice that as the scope of the Programme is rather broad there are many interrelations between the various contributions which can be regarded as different facets of a common theme **Conformal Invariance And Applications To Statistical Mechanics** C Itzykson, H Saleur, Jean-bernard Zuber, 1998-09-29 This volume contains Introductory Notes and major reprints on conformal field theory and its applications to 2 dimensional statistical mechanics of critical phenomena The subject relates to many different areas in contemporary physics and mathematics including string theory integrable systems representations of infinite Lie algebras and automorphic functions **Tensors and Riemannian Geometry** Nail H. Ibragimov, 2015-08-31 This book is based on the experience of teaching the subject by the author in Russia France South Africa and Sweden The author provides students and teachers with an easy to follow textbook spanning a variety of topics on tensors Riemannian geometry and geometric approach to partial differential equations Application of approximate

transformation groups to the equations of general relativity in the de Sitter space simplifies the subject significantly

Algebraic Theory Of Superselection Sectors, The: Introduction And Recent Results - Proceedings Of The Covegno Internazionale "Algebraic Theory Of Superselection Sectors And Field Theory" Daniel Kastler, 1990-06-30 Contents Lectures on Algebraic Quantum Field Theory J Roberts Introduction to the Algebraic Theory of Superselection Sectors D Kastler M Mebkhout K H Rehren Localisability of Particle States K Fredenhagen Local Observables and the Structure of Quantum Field Theory S Doplicher Braid Group Statistics and Their Superselection Rules K H Rehren Principles of General Quantum Field Theory Versus New Intuition from Model Studies An Essay on the Work of J A Swieca B Schroer Endomorphisms and Quantum Symmetry of the Conformal Ising Model G Mack V Schomerus Superselection Sectors in Quantum Field Model Kinks in 2d and Charged States in Lattice Q E D J Fr elich P A Marchetti Braid Statistics in 3 Dimensional Local Quantum Theory J Fr elich F Gabbiani Index Theory of Subfactors and Braid Group statistics R Longo Technical Properties of the Quasi local Algebra C D Antoni Localized Automorphisms of the U 1 Current Algebra on the Circle A Simple Example D Buchholz G Mack I Todorov Readership High energy physicists solid state physicists mathematical physicists and mathematicians

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In a global inundated with displays and the cacophony of quick conversation, the profound energy and emotional resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the regular barrage of sound and distractions. Yet, nestled within the musical pages of **Current Algebras On Riemann Surfaces Current Algebras On Riemann Surfaces**, a charming perform of fictional splendor that impulses with organic feelings, lies an memorable journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that enchanting opus manuals visitors on a psychological odyssey, gently revealing the latent potential and profound affect stuck within the complex web of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect its captivating writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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### **Current Algebras On Riemann Surfaces Current Algebras On Riemann Surfaces Introduction**

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