



# Complex Structures And Vector Fields

**Stancho Dimiev, Kouei Sekigawa**



## **Complex Structures And Vector Fields:**

**Complex Structures And Vector Fields** Kouei Sekigawa, Stancho Dimiev, 1995-06-28 The primary focus of this workshop concerns the interplay between the rich variety of structures and infinitesimal methods The topics included in the volume are complex and harmonic analysis complex algebraic geometry differential geometry mathematical physics and topology *Extremal Unit Vector Fields and Almost Complex Structures on Manifolds* Jiangfan Li, 1992 **Aspects Of Complex Analysis, Differential Geometry, Mathematical Physics And Applications - Proceedings Of The Fourth International Workshop On Complex Structures And Vector Fields** Stancho Dimiev, 1999 **Conformal Vector Fields, Ricci Solitons and Related Topics** Ramesh Sharma, Sharief Deshmukh, 2024-01-19 This book provides an up to date introduction to the theory of manifolds submanifolds semi Riemannian geometry and warped product geometry and their applications in geometry and physics It then explores the properties of conformal vector fields and conformal transformations including their fixed points essentiality and the Lichnerowicz conjecture Later chapters focus on the study of conformal vector fields on special Riemannian and Lorentzian manifolds with a special emphasis on general relativistic spacetimes and the evolution of conformal vector fields in terms of initial data The book also delves into the realm of Ricci flow and Ricci solitons starting with motivations and basic results and moving on to more advanced topics within the framework of Riemannian geometry The main emphasis of the book is on the interplay between conformal vector fields and Ricci solitons and their applications in contact geometry The book highlights the fact that Nil solitons and Sol solitons naturally arise in the study of Ricci solitons in contact geometry Finally the book gives a comprehensive overview of generalized quasi Einstein structures and Yamabe solitons and their roles in contact geometry It would serve as a valuable resource for graduate students and researchers in mathematics and physics as well as those interested in the intersection of geometry and physics Complex Structures and Vector Fields Kouei Sekigawa, Stancho Dimiev, 1995 **International Workshop on Complex Structures, Integrability and Vector Fields** Kouei Sekigawa, Vladimir S. Gerdjikov, Yasuo Matsushita, Ivaïlo M. Mladenov, 2011-07-20 The present workshop is aiming at the higher achievement of the studies of current topics ranging over differential geometry Complex analysis and mathematical physics their future developments and their numerous applications The present volume provides useful and significant information to the specialists in differential geometry complex analysis and mathematical physics It will be interesting also to a much broader audience of scholars and scientists working or interested in classical and quantum mechanics in cell membranes integrability and soliton interactions etc Its geometric part includes homogeneous structures on almost contact metric spaces geometric structures in four manifolds and almost hermitian structures complex connections on conformal Kähler manifolds existence of compact hypersurfaces with the second fundamental form of constant length linear Weingarten surfaces in a hyperbolic three space pre contrast functions and their geometric properties and further fibre bundle formulation of Lagrangian quantum field

theory curvature forms and interaction of fields concerning geometrical setting in mathematical physics The part on integrability and vector fields is devoted to the study of multicomponent nonlinear Schrodinger MNLS equations which play important role for understanding hydro dynamical processes the phenomena of Bose Einstein condensates etc The symmetries of these MNLS equations are also studied as well as their reductions and Lie algebraic properties The third part of these proceedings treats problems of contemporary mechanics and mathematical physics The methods of differential geometry quite unexpectedly provide important tool for modeling and studying microinjections in cell membranes the equilibrium

**Lie Algebras, Geometry, and Toda-Type Systems** Alexander Vitalievich Razumov, Mikhail V. Saveliev, 1997-05-15 The book describes integrable Toda type systems and their Lie algebra and differential geometry background

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Topics in Contemporary Differential Geometry, Complex Analysis and Mathematical Physics Stancho Dimiev, 2007 This volume contains the contributions by the participants in the eight of a series workshops in complex analysis differential geometry and mathematical physics and related areas Active specialists in mathematical physics contribute to the volume providing not only significant information for researchers in the area but also interesting mathematics for non specialists and a broader audience The contributions treat topics including differential geometry partial differential equations integrable systems and mathematical physics

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**Aspects Of Complex Analysis, Differential Geometry, Mathematical Physics And Applications - Proceedings Of The Fourth International Workshop On Complex Structures And Vector Fields** Stancho Dimiev, Kouei Sekigawa, 1999-09-17 This volume constitutes the proceedings of a workshop whose main purpose was to exchange information on current topics in complex

analysis differential geometry mathematical physics and applications and to group aspects of new mathematics Harmonic Vector Fields Sorin Dragomir, Domenico Perrone, 2012 An excellent reference for anyone needing to examine properties of harmonic vector fields to help them solve research problems The book provides the main results of harmonic vector fields with an emphasis on Riemannian manifolds using past and existing problems to assist you in analyzing and furnishing your own conclusion for further research It emphasizes a combination of theoretical development with practical applications for a solid treatment of the subject useful to those new to research using differential geometric methods in extensive detail A useful tool for any scientist conducting research in the field of harmonic analysis Provides applications and modern techniques to problem solving A clear and concise exposition of differential geometry of harmonic vector fields on Riemannian manifolds Physical Applications of Geometric Methods

**Trends In Complex Analysis, Differential Geometry And Mathematical Physics - Proceedings Of The 6th International Workshop On Complex Structures And Vector Fields** Stancho Dimiev, Kouei Sekigawa, 2003-06-13 The Sixth International Workshop on Complex Structures and Vector Fields was a continuation of the previous five workshops 1992 1994 1996 1998 2000 on similar research projects This series of workshops aims at higher achievements in studies of new research subjects The present volume will meet with the satisfaction of many readers *Contemporary Aspects Of Complex Analysis, Differential Geometry And Mathematical Physics - Procs Of The 7th Int'l Workshop On Complex Structures And Vector Fields* Stancho Dimiev, Kouei Sekigawa, 2005-07-04 This volume presents the cutting edge contributions to the Seventh International Workshop on Complex Structures and Vector Fields which was organized as a continuation of the high successful preceding workshops on similar research The volume includes works treating ambitious topics in differential geometry mathematical physics and technology such as Bzier curves in space forms potential and catastrophe of a soap film computer assisted studies of logistic maps and robotics

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**Journal of the Korean Mathematical Society** ,2009

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