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A Bahri

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Flow Lines and Algebraic Invariants in Contact Form Geometry Abbas Bahri, 2012-12-06 This text features a careful treatment of flow lines and algebraic invariants in contact form geometry a vast area of research connected to symplectic field theory pseudo holomorphic curves and Gromov Witten invariants contact homology In particular this work develops a novel algebraic tool in this field rooted in the concept of critical points at infinity the new algebraic invariants defined here are useful in the investigation of contact structures and Reeb vector fields The book opens with a review of prior results and then proceeds through an examination of variational problems non Fredholm behavior true and false critical points at infinity and topological implications An increasing convergence with regular and singular Yamabe type problems is discussed and the intersection between contact form and Riemannian geometry is emphasized with a specific focus on a unified approach to non compactness in both disciplines Fully detailed explicit proofs and a number of suggestions for further research are provided throughout Rich in open problems and written with a global view of several branches of mathematics this text lays the foundation for new avenues of study in contact form geometry Graduate students and researchers in geometry partial differential equations and related fields will benefit from the book s breadth and unique perspective

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Partial Differential Equations arising from Physics and Geometry

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Partial Differential Equations Henri Berestycki, 2007 In celebration of Haim Brezis's 60th birthday a conference was held at the Ecole Polytechnique in Paris with a program testifying to Brezis's wide ranging influence on nonlinear analysis and partial differential equations The articles in this volume are primarily from that conference They present a rare view of the state of the art of many aspects of nonlinear PDEs as well as describe new directions that are being opened up in this field The articles written by mathematicians at the center of current developments provide somewhat more personal views of the important developments and challenges **Classical and Quantic Periodic Motions of Multiply Polarized**

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Marino, M K V Murthy, 1995-02-27 Contains proceedings of a conference held in Italy in late 1990 dedicated to discussing problems and recent progress in different aspects of nonlinear analysis such as critical point theory global analysis nonlinear evolution equations hyperbolic problems conservation laws fluid mechanics gamma convergence homogenization and relaxation methods Hamilton Jacobi equations and nonlinear elliptic and parabolic systems Also discussed are applications to some questions in differential geometry and nonlinear partial differential equations **Recent Progress in Conformal**

Geometry Abbas Bahri, Yongzhong Xu, 2007 This book presents a new front of research in conformal geometry on sign changing Yamabe type problems and contact form geometry in particular New ground is broken with the establishment of a Morse lemma at infinity for sign changing Yamabe type problems This family of problems thought to be out of reach a few years ago becomes a family of problems which can be studied the book lays the foundation for a program of research in this direction In contact form geometry a cousin of symplectic geometry the authors prove a fundamental result of compactness in a variational problem on Legendrian curves which allows one to define a homology associated to a contact structure and a vector field of its kernel on a three dimensional manifold The homology is invariant under deformation of the contact form and can be read on a sub Morse complex of the Morse complex of the variational problem built with the periodic orbits of the Reeb vector field This book introduces therefore a practical tool in the field and this homology becomes computable

Human-Like Biomechanics Vladimir G. Ivancevic, Tijana T. Ivancevic, 2008-01-11 Human Like Biomechanics is a comprehensive introduction into modern geometrical methods to be used as a unified research approach in two apparently

separate and rapidly growing fields mathematical biomechanics and humanoid robotics The book contains six Chapters and an Appendix The first Chapter is an Introduction giving a brief review of mathematical techniques to be used in the text The second Chapter develops geometrical basis of human like biomechanics while the third Chapter develops its mechanical basis mainly from generalized Lagrangian and Hamiltonian perspective The fourth Chapter develops topology of human like biomechanics while the fifth Chapter reviews related nonlinear control techniques The sixth Chapter develops covariant biophysics of electro muscular stimulation The Appendix consists of two parts classical muscular mechanics and modern path integral methods which are both used frequently in the main text The whole book is based on the authors own research papers in human like biomechanics *Revue Roumaine de Mathématiques Pures Et Appliquées* ,1989 **Analele**

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