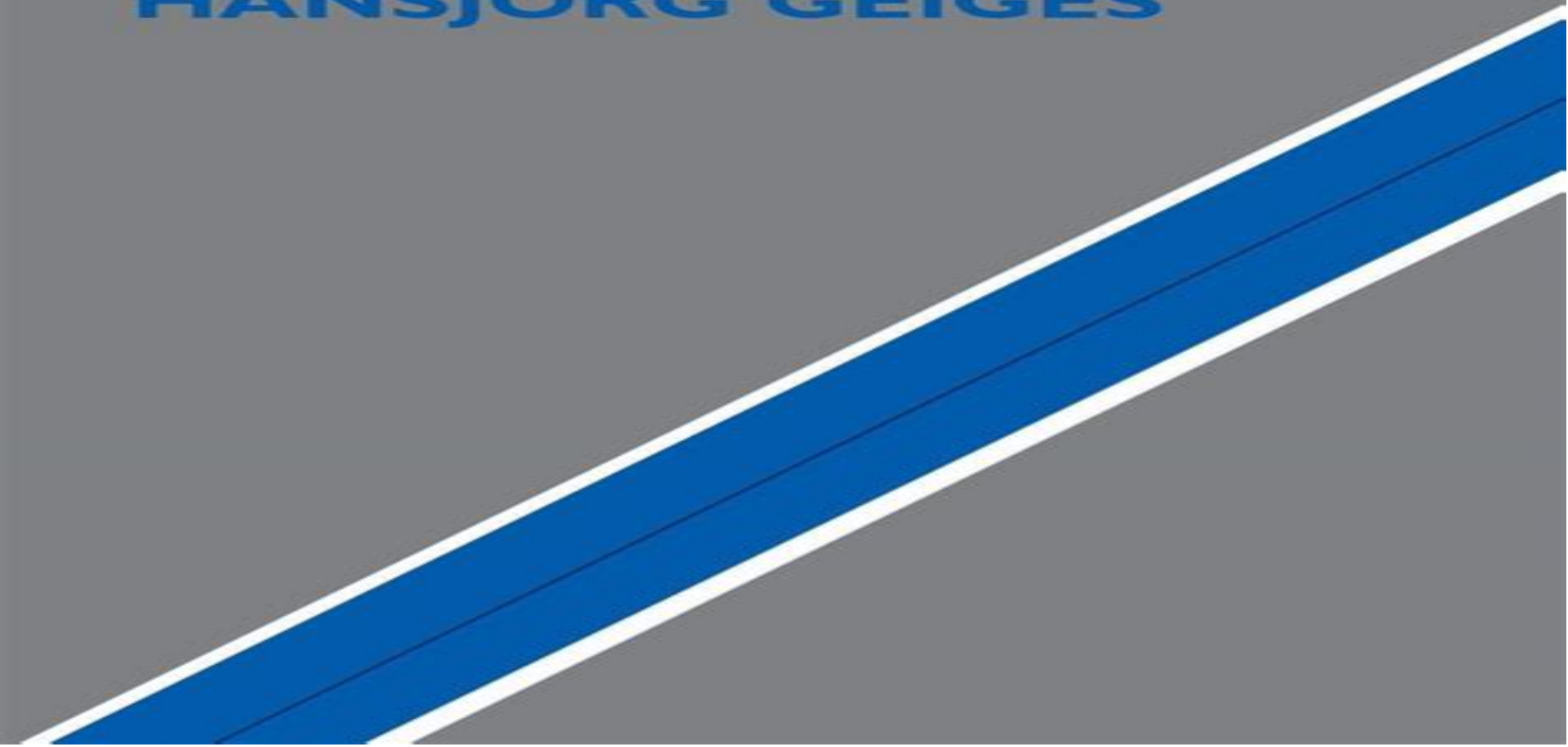


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An Introduction to Contact Topology

HANSJÖRG GEIGES



An Introduction To Contact Topology Cambridge Studies In Advanced Mathematics

Judd E. Hollander



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An Introduction to Contact Topology Hansjörg Geiges, 2008-03-13 This text on contact topology is the first comprehensive introduction to the subject including recent striking applications in geometric and differential topology Eliashberg's proof of Cerf's theorem via the classification of tight contact structures on the 3 sphere and the Kronheimer Mrowka proof of property P for knots via symplectic fillings of contact 3 manifolds Starting with the basic differential topology of contact manifolds all aspects of 3 dimensional contact manifolds are treated in this book One notable feature is a detailed exposition of Eliashberg's classification of overtwisted contact structures Later chapters also deal with higher dimensional contact topology where the focus mainly on contact surgery but other constructions of contact manifolds are described such as open books or fibre connected sums

An Introduction to Contact Topology ICM Edition Hansjörg Geiges, 2010-07-23 , **Lectures on Contact 3-Manifolds, Holomorphic Curves and Intersection Theory** Chris Wendl, 2020-03-26 An accessible introduction to the intersection theory of punctured holomorphic curves and its applications in topology

Breadth in Contemporary Topology David T. Gay, Weiwei Wu, 2019-06-27 This volume contains the proceedings of the 2017 Georgia International Topology Conference held from May 22 June 2 2017 at the University of Georgia Athens Georgia The papers contained in this volume cover topics ranging from symplectic topology to classical knot theory to topology of 3 and 4 dimensional manifolds to geometric group theory Several papers focus on open problems while other papers present new and insightful proofs of classical results Taken as a whole this volume captures the spirit of the conference both in terms of public lectures and informal conversations and presents a sampling of some of the great new ideas generated in topology over the preceding eight years

Symplectic and Contact Geometry Anahita Eslami Rad, 2024-04-11 This textbook offers a concise introduction to symplectic and contact geometry with a focus on the relationships between these subjects and other topics such as Lie theory and classical mechanics Organized into four chapters this work serves as a stepping stone for readers to delve into the subject providing a succinct and motivating foundation The content covers definitions symplectic linear algebra symplectic and contact manifolds Hamiltonian systems and more Prerequisite knowledge includes differential geometry manifolds algebraic topology de Rham cohomology and the basics of Lie groups Quick reviews are included where necessary and examples and constructions are provided to foster understanding Ideal for advanced undergraduate students and graduate students this volume can also serve as a valuable resource for independent researchers seeking a quick yet solid understanding of symplectic and contact geometry

Holomorphic Curves in Low Dimensions Chris Wendl, 2018-06-28 This monograph provides an accessible introduction to the applications of pseudoholomorphic curves in symplectic and contact geometry with emphasis on dimensions four and three The first half of the book focuses on McDuff's characterization of symplectic rational and ruled surfaces one of the classic early applications of holomorphic curve theory The proof presented here uses the language of Lefschetz fibrations and

pencils thus it includes some background on these topics in addition to a survey of the required analytical results on holomorphic curves Emphasizing applications rather than technical results the analytical survey mostly refers to other sources for proofs while aiming to provide precise statements that are widely applicable plus some informal discussion of the analytical ideas behind them The second half of the book then extends this program in two complementary directions 1 a gentle introduction to Gromov Witten theory and complete proof of the classification of uniruled symplectic 4 manifolds and 2 a survey of punctured holomorphic curves and their applications to questions from 3 dimensional contact topology such as classifying the symplectic fillings of planar contact manifolds This book will be particularly useful to graduate students and researchers who have basic literacy in symplectic geometry and algebraic topology and would like to learn how to apply standard techniques from holomorphic curve theory without dwelling more than necessary on the analytical details This book is also part of the Virtual Series on Symplectic Geometry <http://www.springer.com/series/16019> Holomorphic Curves and Global Questions in Contact Geometry Casim Abbas, Helmut Hofer, 2019-03-29 This book explains the foundations of holomorphic curve theory in contact geometry By using a particular geometric problem as a starting point the authors guide the reader into the subject As such it ideally serves as preparation and as entry point for a deeper study of the analysis underlying symplectic field theory An introductory chapter sets the stage explaining some of the basic notions of contact geometry and the role of holomorphic curves in the field The authors proceed to the heart of the material providing a detailed exposition about finite energy planes and periodic orbits chapter 4 to disk filling methods and applications chapter 9 The material is self contained It includes a number of technical appendices giving the geometric analysis foundations for the main results so that one may easily follow the discussion Graduate students as well as researchers who want to learn the basics of this fast developing theory will highly appreciate this accessible approach taken by the authors

Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. II-IV: Invited Lectures Rajendra Bhatia, Arup Pal, G Rangarajan, V Srinivas, M Vanninathan, 2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress

Encyclopedia of Knot Theory Colin Adams, Erica Flapan, Allison Henrich, Louis H. Kauffman, Lewis D. Ludwig, Sam Nelson, 2021-02-10 Knot theory is a fascinating mathematical subject with multiple links to theoretical physics This encyclopedia is filled with valuable information on a rich and fascinating subject Ed Witten Recipient of the Fields Medal I spent a pleasant afternoon perusing the Encyclopedia of Knot Theory It is a comprehensive compilation of clear introductions to both classical and very modern developments in the field It will be a terrific resource for the accomplished researcher and will also be an excellent way to lure students both graduate and undergraduate into the field

Abigail Thompson Distinguished Professor of Mathematics at University of California Davis Knot theory has proven to be a fascinating area of mathematical research dating back about 150 years Encyclopedia of Knot Theory provides short interconnected articles on a variety of active areas in knot theory and includes beautiful pictures deep mathematical connections and critical applications Many of the articles in this book are accessible to undergraduates who are working on research or taking an advanced undergraduate course in knot theory More advanced articles will be useful to graduate students working on a related thesis topic to researchers in another area of topology who are interested in current results in knot theory and to scientists who study the topology and geometry of biopolymers Features Provides material that is useful and accessible to undergraduates postgraduates and full time researchers Topics discussed provide an excellent catalyst for students to explore meaningful research and gain confidence and commitment to pursuing advanced degrees Edited and contributed by top researchers in the field of knot theory

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