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Riemannian Geometry of Contact and Symplectic Manifolds Lectures on Symplectic Manifolds A Brief Introduction to Symplectic and Contact Manifolds An Introduction to Symplectic Geometry Contact and Symplectic Geometry Symplectic Geometry and Fourier Analysis Lectures on Symplectic Geometry Symplectic Manifolds with no Kaehler structure Symplectic Geometry and Topology Künneth Geometry Torus Actions on Symplectic Manifolds Function Theory on Symplectic Manifolds The Topology of Torus Actions on Symplectic Manifolds Gauge Theory and Symplectic Geometry Complex and Symplectic Geometry Introduction to Symplectic Geometry Topics in Symplectic 4-manifolds Symplectic Actions of S^1 -Tori on S^2 -Manifolds Symplectic Manifolds with No Kähler Structure Symplectic Geometry Symplectic Manifolds and Jones-Witten Theory Lectures on the Geometry of Poisson Manifolds J-holomorphic Curves and Symplectic Topology From Stein to Weinstein and Back Symplectic and Contact Topology: Interactions and Perspectives Symplectic Geometry and Analytical Mechanics Geometry of Phase Spaces Contact and Symplectic Topology Symplectic Invariants and Hamiltonian Dynamics Holomorphic Curves in Symplectic Geometry Seiberg Witten and Gromov Invariants for Symplectic 4-manifolds Dynamical Systems IV Lectures on the Geometry of Quantization Structure of Dynamical Systems Dynamical Systems IV Introduction to Symplectic Topology Geometry and Topology of Manifolds Symplectic Manifolds with No Kaehler Structure Lectures on Dynamical Systems Virtual Fundamental Cycles in Symplectic Topology

Riemannian Geometry of Contact and Symplectic Manifolds 2013-11-11 book endorsed by the sunyer prize committee a weinstein j oesterle et al
Lectures on Symplectic Manifolds 1977 the first six sections of these notes contain a description of some of the basic constructions and results on symplectic manifolds and lagrangian submanifolds section 7 on intersections of lagrangian submanifolds is still mostly internal to symplectic geometry but it contains some applications to machanics and dynamical systems sections 8 9 and 10 are devoted to various aspects of the quantization problem in section 10 there is a feedback of ideas from quantization theory into symplectic geometry itslef

A Brief Introduction to Symplectic and Contact Manifolds 2016-08-08 the book introduces the basic notions in symplectic and contact geometry at the level of the second year graduate student it also contains many exercises some of which are solved only in the last chapter we begin with the linear theory then give the definition of symplectic manifolds and some basic examples review advanced calculus discuss hamiltonian systems tour rapidly group and the basics of contact geometry and solve problems in chapter 8 the material just described can be used as a one semester course on symplectic and contact geometry the book contains also more advanced material suitable to advanced graduate students and researchers contents symplectic vector spaces symplectic manifold hamiltonian systems and poisson algebragroup actions contact manifold solutions of selected exercises epilogue the c_0 symplectic and contact topology readership graduate students researchers and more advanced mathematicians symplectic contact geometry key features it is brief the easy part has been tested and been used for a short course the advanced material develops things related to one of the author s research further there is no book going from the very elementary part to the very advanced level like this one

An Introduction to Symplectic Geometry 2001 symplectic geometry is a central topic of current research in mathematics indeed symplectic methods are key ingredients in the study of dynamical systems differential equations algebraic geometry topology mathematical physics and representations of lie groups this book is a true introduction to symplectic geometry assuming only a general background in analysis and familiarity with linear algebra it starts with the basics of the geometry of symplectic vector spaces then symplectic manifolds are defined and explored in addition to the essential classic results such as darbox s theorem more recent results and ideas are also included here such as symplectic capacity and pseudoholomorphic curves these ideas have revolutionized the subject the main examples of symplectic manifolds are given including the cotangent bundle kähler manifolds and coadjoint orbits further principal ideas are carefully examined such as hamiltonian vector fields the poisson bracket and connections with contact manifolds berndt describes some of the close connections between symplectic geometry and mathematical physics in the last two chapters of the book in particular the moment map is defined and explored both mathematically and in its relation to physics he also introduces symplectic reduction which is an important tool for reducing the number of variables in a physical system and for constructing new symplectic manifolds from old the final chapter is on quantization which uses symplectic methods to take classical mechanics to quantum mechanics this section includes a discussion of the heisenberg group and the weil or metaplectic representation of the symplectic group several appendices provide background material on vector bundles on cohomology and on lie groups and lie algebras and their representations berndt s presentation of symplectic geometry is a clear and concise introduction to the major

methods and applications of the subject and requires only a minimum of prerequisites this book would be an excellent text for a graduate course or as a source for anyone who wishes to learn about symplectic geometry

Contact and Symplectic Geometry 1996-09-28 this volume presents some of the lectures and research during the special programme held at the newton institute in 1994 the two parts each contain a mix of substantial expository articles and research papers that outline important and topical ideas many of the results have not been presented before and the lectures on floer homology is the first available in book form

symplectic methods are one of the most active areas of research in mathematics currently and this volume will attract much attention

Symplectic Geometry and Fourier Analysis 2018-02-28 suitable for graduate students in mathematics this monograph covers differential and symplectic geometry homogeneous symplectic manifolds fourier analysis metaplectic representation quantization kirillov theory includes appendix on quantum mechanics by robert hermann 1977 edition

Lectures on Symplectic Geometry 2004-10-27 the goal of these notes is to provide a fast introduction to symplectic geometry for graduate students with some knowledge of differential geometry de rham theory and classical lie groups this text addresses symplectomorphisms local forms contact manifolds compatible almost complex structures kaehler manifolds hamiltonian mechanics moment maps symplectic reduction and symplectic toric manifolds it contains guided problems called homework designed to complement the exposition or extend the reader's understanding there are by now excellent references on symplectic geometry a subset of which is in the bibliography of this book however the most efficient introduction to a subject is often a short elementary treatment and these notes attempt to serve that purpose this text provides a taste of areas of current research and will prepare the reader to explore recent papers and extensive books on symplectic geometry where the pace is much faster for this reprint numerous corrections and clarifications have been made and the layout has been improved

Symplectic Manifolds with no Kaehler structure 2006-11-14 this is a research monograph covering the majority of known results on the problem of constructing compact symplectic manifolds with no kaehler structure with an emphasis on the use of rational homotopy theory in recent years some new and stimulating conjectures and problems have been formulated due to an influx of homotopical ideas examples include the lupton orea conjecture the benson gordon conjecture both of which are in the spirit of some older and still unsolved problems e g thurston's conjecture and sullivan's problem our explicit aim is to clarify the interrelations between certain aspects of symplectic geometry and homotopy theory in the framework of the problems mentioned above we expect that the reader is aware of the basics of differential geometry and algebraic topology at graduate level

Symplectic Geometry and Topology 2004 symplectic geometry has its origins as a geometric language for classical mechanics but it has recently exploded into an independent field interconnected with many other areas of mathematics and physics the goal of the ias park city mathematics institute graduate summer school on symplectic geometry and topology was to give an intensive introduction to these exciting areas of current research included in this proceedings are lecture notes from the following courses introduction to symplectic topology by d mcduff holomorphic curves and dynamics in dimension three by h hofer an introduction to the seiberg witten equations on symplectic manifolds by c taubes lectures on floer homology by d salamon a tutorial on quantum cohomology by a givental euler characteristics and lagrangian

intersections by r macpherson hamiltonian group actions and symplectic reduction by l jeffrey and mechanics symmetry and dynamics by j marsden information for our distributors titles in this series are copublished with the institute for advanced study park city mathematics institute members of the mathematical association of america maa and the national council of teachers of mathematics nctm receive a 20 discount from list price

Künneth Geometry 2023-12-21 an elegant introduction to symplectic geometry and lagrangian foliations including a systematic study of bi lagrangian geometry

Torus Actions on Symplectic Manifolds 2012-12-06 the material and references in this extended second edition of the topology of torus actions on symplectic manifolds published as volume 93 in this series in 1991 have been updated symplectic manifolds and torus actions are investigated with numerous examples of torus actions for instance on some moduli spaces although the book is still centered on convexity results it contains much more material in particular lots of new examples and exercises

Function Theory on Symplectic Manifolds 2014 this is a book on symplectic topology a rapidly developing field of mathematics which originated as a geometric tool for problems of classical mechanics since the 1980s powerful methods such as gromov s pseudo holomorphic curves and morse floer theory on loop spaces gave rise to the discovery of unexpected symplectic phenomena the present book focuses on function spaces associated with a symplectic manifold a number of recent advances show that these spaces exhibit intriguing properties and structures giving rise to an alternative intuition and new tools in symplectic topology the book provides an essentially self contained introduction into these developments along with applications to symplectic topology algebra and geometry of symplectomorphism groups hamiltonian dynamics and quantum mechanics it will appeal to researchers and students from the graduate level onwards

The Topology of Torus Actions on Symplectic Manifolds 2012-12-06 the material and references in this extended second edition of the topology of torus actions on symplectic manifolds published as volume 93 in this series in 1991 have been updated symplectic manifolds and torus actions are investigated with numerous examples of torus actions for instance on some moduli spaces although the book is still centered on convexity results it contains much more material in particular lots of new examples and exercises

Gauge Theory and Symplectic Geometry 2013-04-17 gauge theory symplectic geometry and symplectic topology are important areas at the crossroads of several mathematical disciplines the present book with expertly written surveys of recent developments in these areas includes some of the first expository material of seiberg witten theory which has revolutionised the subjects since its introduction in late 1994 topics covered include introductions to seiberg witten theory to applications of the s w theory to four dimensional manifold topology and to the classification of symplectic manifolds an introduction to the theory of pseudo holomorphic curves and to quantum cohomology algebraically integrable hamiltonian systems and moduli spaces the stable topology of gauge theory morse floer theory pseudo convexity and its relations to symplectic geometry generating functions frobenius manifolds and topological quantum field theory

Complex and Symplectic Geometry 2017-10-12 this book arises from the indam meeting complex and symplectic geometry which was held in cortona in june 2016 several leading specialists including young researchers in

the field of complex and symplectic geometry present the state of the art of their research on topics such as the cohomology of complex manifolds analytic techniques in kähler and non kähler geometry almost complex and symplectic structures special structures on complex manifolds and deformations of complex objects the work is intended for researchers in these areas

Introduction to Symplectic Geometry 2019-04-15 this introductory book offers a unique and unified overview of symplectic geometry highlighting the differential properties of symplectic manifolds it consists of six chapters some algebra basics symplectic manifolds cotangent bundles symplectic g spaces poisson manifolds and a graded case concluding with a discussion of the differential properties of graded symplectic manifolds of dimensions $0 \leq n$ it is a useful reference resource for students and researchers interested in geometry group theory analysis and differential equations this book is also inspiring in the emerging field of geometric science of information in particular the chapter on symplectic g spaces where jean louis koszul develops jean marie souriau's tools related to the non equivariant case of co adjoint action on souriau's moment map through souriau's cocycle opening the door to lie group machine learning with souriau fisher metric

Topics in Symplectic 4-manifolds 1998 in march 1996 the first annual ip lecture series took place it included ten one hour invited lectures by prominent researchers in four dimensional smooth and symplectic topology this volume contains six of these lectures

Symplectic Actions of S^2 -Tori on S^4 -Manifolds 2010-02-22 in this paper the author classifies symplectic actions of 2 tori on compact connected symplectic 4 manifolds up to equivariant symplectomorphisms this extends results of atiyah guillemin sternberg delzant and benoist the classification is in terms of a collection of invariants of the topology of the manifold of the torus action and of the symplectic form the author constructs explicit models of such symplectic manifolds with torus actions defined in terms of these invariants

Symplectic Manifolds with No Kähler Structure 1997 the seminar symplectic geometry at the university of berne in summer 1992 showed that the topic of this book is a very active field where many different branches of mathematics come together differential geometry topology partial differential equations variational calculus and complex analysis as usual in such a situation it may be tedious to collect all the necessary ingredients the present book is intended to give the nonspecialist a solid introduction to the recent developments in symplectic and contact geometry chapter 1 gives a review of the symplectic group $sp(n, r)$ symplectic manifolds and hamiltonian systems last but not least to fix the notations the 1-iaslov index for closed curves as well as arcs in $sp(n, r)$ is discussed this index will be used in chapters 5 and 8 chapter 2 contains a more detailed account of symplectic manifolds starting with a proof of the darboux theorem saying that there are no local invariants in symplectic geometry the most important examples of symplectic manifolds will be introduced cotangent spaces and kahler manifolds finally we discuss the theory of coadjoint orbits and the kostant souriau theorem which are concerned with the question of which homogeneous spaces carry a symplectic structure

Symplectic Geometry 2013-06-29 this book is addressed to graduate students and researchers in the fields of mathematics and physics who are interested in mathematical and theoretical physics differential geometry mechanics quantization theories and quantum physics quantum groups etc and who are familiar with differentiable and symplectic

manifolds the aim of the book is to provide the reader with a monograph that enables him to study systematically basic and advanced material on the recently developed theory of poisson manifolds and that also offers ready access to bibliographical references for the continuation of his study until now most of this material was dispersed in research papers published in many journals and languages the main subjects treated are the schouten nijenhuis bracket the generalized frobenius theorem the basics of poisson manifolds poisson calculus and cohomology quantization poisson morphisms and reduction realizations of poisson manifolds by symplectic manifolds and by symplectic groupoids and poisson lie groups the book unifies terminology and notation it also reports on some original developments stemming from the author s work including new results on poisson cohomology and geometric quantization cofoliations and biinvariant poisson structures on lie groups

Symplectic Manifolds and Jones-Witten Theory 1990 the main goal of this book is to establish the fundamental theorems of the subject in full and rigourous detail in particular the book contains complete proofs of gromov s compactness theorem for spheres of the gluing theorem for spheres and of the associativity of quantum multiplication in the semipositive case the book can also serve as an introduction to current work in symplectic topology

Lectures on the Geometry of Poisson Manifolds 2012-12-06 this book is devoted to the interplay between complex and symplectic geometry in affine complex manifolds affine complex a k a stein manifolds have canonically built into them symplectic geometry which is responsible for many phenomena in complex geometry and analysis the goal of the book is the exploration of this symplectic geometry the road from stein to weinstein and its applications in the complex geometric world of stein manifolds the road back

J-holomorphic Curves and Symplectic Topology 2012 the papers presented in this volume are written by participants of the symplectic and contact topology quantum cohomology and symplectic field theory symposium the workshop was part of a semester long joint venture of the fields institute in toronto and the centre de recherches mathematiques in montreal the twelve papers cover the following topics symplectic topology the interaction between symplectic and other geometric structures and differential geometry and topology the proceeding concludes with two papers that have a more algebraic character one is related to the program of homological mirror symmetry the author defines a category of extended complex manifolds and studies its properties the subject of the final paper is non commutative symplectic geometry in particular the structure of the symplectomorphism group of a non commutative complex plane the in depth articles make this book a useful reference for graduate students as well as research mathematicians

From Stein to Weinstein and Back 2012 approach your problems from the right end it isn t that they can t see the solution and begin with the answers then one day it is that they can t see the problem perhaps you will find the final question g k chesterton the scandal of father the hermit clad in crane feathers brown the point of a pin in r van gulik s the chinese maze murders growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics however the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches it also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related further the kind and level of sophistication of mathematics applied in various sci ences has changed drastically in recent years measure theory is used non trivially in re

gional and theoretical economics algebraic geometry interacts with physics the minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homo topy theory lie algebras are relevant to filtering and prediction and electrical engineering can use stein spaces

Symplectic and Contact Topology: Interactions and Perspectives 2003 devoted to the classical analytical mechanics of systems with a finite number of degrees of freedom with special attention given to some nonstandard problems both theoretical and practical presents the geometric formulation of analytical mechanics in terms of tangent and cotangent bundles and symplectic and contact manifolds in contrast to purely formal treatments the author justifies in physical terms the symplectic structure presupposed by classical hamiltonian mechanics the result is that the well known structures of the hamilton jacobi theory are given a deep geometrical interpretation

Symplectic Geometry and Analytical Mechanics 1987-03-31 symplectic and contact geometry naturally emerged from the mathematical description of classical physics the discovery of new rigidity phenomena and properties satisfied by these geometric structures launched a new research field worldwide the intense activity of many european research groups in this field is reflected by the esf research networking programme contact and symplectic topology cast the lectures of the summer school in nantes june 2011 and of the cast summer school in budapest july 2012 provide a nice panorama of many aspects of the present status of contact and symplectic topology the notes of the minicourses offer a gentle introduction to topics which have developed in an amazing speed in the recent past these topics include 3 dimensional and higher dimensional contact topology fukaya categories asymptotically holomorphic methods in contact topology bordered floer homology embedded contact homology and flexibility results for stein manifolds

Geometry of Phase Spaces 1991 analysis of an old variational principal in classical mechanics has established global periodic phenomena in hamiltonian systems one of the links is a class of symplectic invariants called symplectic capacities and these invariants are the main theme of this book topics covered include basic symplectic geometry symplectic capacities and rigidity symplectic fixed point theory and a survey on floer homology and symplectic homology

Contact and Symplectic Topology 2014-03-10 this book is devoted to pseudo holomorphic curve methods in symplectic geometry it contains an introduction to symplectic geometry and relevant techniques of riemannian geometry proofs of gromov s compactness theorem an investigation of local properties of holomorphic curves including positivity of intersections and applications to lagrangian embeddings problems the chapters are based on a series of lectures given previously by the authors m audin a banyaga p gauduchon f labourie j lafontaine f lalonde gang liu d mcduff m p muller p pansu l polterovich j c sikorav in an attempt to make this book accessible also to graduate students the authors provide the necessary examples and techniques needed to understand the applications of the theory the exposition is essentially self contained and includes numerous exercises

Symplectic Invariants and Hamiltonian Dynamics 2012-12-06 on march 28 30 1996 international press the national science foundation and the university of california sponsored the first annual international press lecture series held on the irvine campus this volume consists of four papers comprising the proof of the author s result relating the seiberg witten and gromov invariants of four manifolds

Holomorphic Curves in Symplectic Geometry 2012-12-06 this book takes a snapshot of the mathematical foundations of classical and quantum mechanics from a contemporary mathematical viewpoint it covers a number of important recent developments in dynamical systems and mathematical physics and places them in the framework of the more classical approaches the presentation is enhanced by many illustrative examples concerning topics which have been of especial interest to workers in the field and by sketches of the proofs of the major results the comprehensive bibliographies are designed to permit the interested reader to retrace the major stages in the development of the field if he wishes not so much a detailed textbook for plodding students this volume like the others in the series is intended to lead researchers in other fields and advanced students quickly to an understanding of the state of the art in this area of mathematics as such it will serve both as a basic reference work on important areas of mathematical physics as they stand today and as a good starting point for further more detailed study for people new to this field

Seiberg Witten and Gromov Invariants for Symplectic 4-manifolds 2005

these notes are based on a course entitled symplectic geometry and geometric quantization taught by alan weinstein at the university of california berkeley fall 1992 and at the centre emile borel spring 1994 the only prerequisite for the course needed is a knowledge of the basic notions from the theory of differentiable manifolds differential forms vector fields transversality etc the aim is to give students an introduction to the ideas of microlocal analysis and the related symplectic geometry with an emphasis on the role these ideas play in formalizing the transition between the mathematics of classical dynamics hamiltonian flows on symplectic manifolds and quantum mechanics unitary flows on hilbert spaces these notes are meant to function as a guide to the literature the authors refer to other sources for many details that are omitted and can be bypassed on a first reading

Dynamical Systems IV 2013-06-29 the aim of the book is to treat all three basic theories of physics namely classical mechanics statistical mechanics and quantum mechanics from the same perspective that of symplectic geometry thus showing the unifying power of the symplectic geometric approach reading this book will give the reader a deep understanding of the interrelationships between the three basic theories of physics this book is addressed to graduate students and researchers in mathematics and physics who are interested in mathematical and theoretical physics symplectic geometry mechanics and geometric quantization

Lectures on the Geometry of Quantization 1997 from the reviews of the first edition here a wealth of material is displayed for us too much to even indicate in a review your reviewer was very impressed by the contents of both volumes ems 2 and 4 recommending them without any restriction mededelingen van het wiskundig genootschap 1992

Structure of Dynamical Systems 2012-12-06 over the last number of years powerful new methods in analysis and topology have led to the development of the modern global theory of symplectic topology including several striking and important results the first edition of introduction to symplectic topology was published in 1995 the book was the first comprehensive introduction to the subject and became a key text in the area a significantly revised second edition was published in 1998 introducing new sections and updates on the fast developing area this new third edition includes updates and new material to bring the book right up to date

Dynamical Systems IV 2001-06-20 this book contains expository papers

that give an up to date account of recent developments and open problems in the geometry and topology of manifolds along with several research articles that present new results appearing in published form for the first time the unifying theme is the problem of understanding manifolds in low dimensions notably in dimensions three and four and the techniques include algebraic topology surgery theory donaldson and seiberg witten gauge theory heegaard floer homology contact and symplectic geometry and gromov witten invariants the articles collected for this volume were contributed by participants of the conference geometry and topology of manifolds held at mcmaster university on may 14 18 2004 and are representative of the many excellent talks delivered at the conference

Introduction to Symplectic Topology 2017-03-16 this book originated from an introductory lecture course on dynamical systems given by the author for advanced students in mathematics and physics at eth zurich the first part centers around unstable and chaotic phenomena caused by the occurrence of homoclinic points the existence of homoclinic points complicates the orbit structure considerably and gives rise to invariant hyperbolic sets nearby the orbit structure in such sets is analyzed by means of the shadowing lemma whose proof is based on the contraction principle this lemma is also used to prove s smale s theorem about the embedding of bernoulli systems near homoclinic orbits the chaotic behavior is illustrated in the simple mechanical model of a periodically perturbed mathematical pendulum the second part of the book is devoted to hamiltonian systems the hamiltonian formalism is developed in the elegant language of the exterior calculus the theorem of v arnold and r jost shows that the solutions of hamiltonian systems which possess sufficiently many integrals of motion can be written down explicitly and for all times the existence proofs of global periodic orbits of hamiltonian systems on symplectic manifolds are based on a variational principle for the old action functional of classical mechanics the necessary tools from variational calculus are developed there is an intimate relation between the periodic orbits of hamiltonian systems and a class of symplectic invariants called symplectic capacities from these symplectic invariants one derives surprising symplectic rigidity phenomena this allows a first glimpse of the fast developing new field of symplectic topology

Geometry and Topology of Manifolds 2014-09-01 the method of using the moduli space of pseudo holomorphic curves on a symplectic manifold was introduced by mikhael gromov in 1985 from the appearance of gromov s original paper until today this approach has been the most important tool in global symplectic geometry to produce numerical invariants of these manifolds using this method requires constructing a fundamental cycle associated with moduli spaces this volume brings together three approaches to constructing the virtual fundamental cycle for the moduli space of pseudo holomorphic curves all approaches are based on the idea of local kuranishi charts for the moduli space workers in the field will get a comprehensive understanding of the details of these constructions and the assumptions under which they can be made these techniques and results will be essential in further applications of this approach to producing invariants of symplectic manifolds

Symplectic Manifolds with No Kaehler Structure 2010

Lectures on Dynamical Systems 2019-04-12

Virtual Fundamental Cycles in Symplectic Topology

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