

Foliations Ii

Foliations and Geometric Structures Aurel Bejancu 2006-01-17 Offers basic material on distributions and foliations. This book introduces and builds the tools needed for studying the geometry of foliated manifolds. Its main theme is to investigate the interrelations between foliations of a manifold on the one hand, and the many geometric structures that the manifold may admit on the other hand.

Geometric Theory of Foliations César Camacho 2013-11-11 Intuitively, a foliation corresponds to a decomposition of a manifold into a union of connected, disjoint submanifolds of the same dimension, called leaves, which pile up locally like pages of a book. The theory of foliations, as it is known, began with the work of C. Ehresmann and G. Reeb, in the 1940's; however, as Reeb has himself observed, already in the last century P. Painleve saw the necessity of creating a geometric theory (of foliations) in order to better understand the problems in the study of solutions of holomorphic differential equations in the complex field. The development of the theory of foliations was however provoked by the following question about the topology of manifolds proposed by H. Hopf in the 3 1930's: "Does there exist on the Euclidean sphere S^3 a completely integrable vector field, that is, a field X such that $X \cdot \text{curl } X = 0$?" By Frobenius' theorem, this question is equivalent to the following: "Does there exist on the 3 sphere S^3 a two-dimensional foliation?" This question was answered affirmatively by Reeb in his thesis, where he presents an example of a foliation of S^3 with the following characteristics: There exists one compact leaf homeomorphic to the two-dimensional torus, while the other leaves are homeomorphic to two-dimensional planes which accumulate asymptotically on the compact leaf. Further, the foliation is C^∞ .

The Wild World of 4-Manifolds Alexandru Scorpan 2022-01-26 What a wonderful book! I strongly recommend this book to anyone, especially graduate students, interested in getting a sense of 4-manifolds. —MAA Reviews The book gives an excellent overview of 4-manifolds, with many figures and historical notes. Graduate students, nonexperts, and experts alike will enjoy browsing through it. — Robion C. Kirby, University of California, Berkeley This book offers a panorama of the topology of simply connected smooth manifolds of dimension four. Dimension four is unlike any other dimension; it is large enough to have room for wild things to happen, but small enough so that there is no room to undo the wildness. For example, only manifolds of dimension four can exhibit infinitely many distinct smooth structures. Indeed, their topology remains the least understood today. To put things in context, the book starts with a survey of higher dimensions and of topological 4-manifolds. In the second part, the main invariant of a 4-manifold—the intersection form—and its interaction with the topology of the manifold are investigated. In the third part, as an important source of examples, complex surfaces are reviewed. In the final fourth part of the book, gauge theory is presented; this differential-geometric method has brought to light how unwieldy smooth 4-manifolds truly are, and while bringing new insights, has raised more questions than answers. The structure of the book is modular, organized into a main track of about two hundred pages, augmented by extensive notes at the end of each chapter, where many extra details, proofs and developments are presented. To help the reader, the text is peppered with over 250 illustrations and has an extensive index.

Riemannian Foliations Molino 2012-12-06 Foliation theory has its origins in the global analysis of solutions of ordinary differential equations: on an n -dimensional manifold M , an [autonomous] differential equation is defined by a vector field X ; if this vector field has no singularities, then its trajectories form a partition of M into curves, i.e. a foliation of codimension $n - 1$. More generally, a foliation F of codimension q on M corresponds to a partition of M into immersed submanifolds [the leaves] of dimension $p = n - q$. The first global image that comes to mind is that of a stack of "plaques". Viewed laterally [transversally], the leaves of such a stacking are the points of a quotient manifold W of dimension q . Actually, this image corresponds to an elementary type of foliation, that one says is "simple". For an arbitrary foliation, it is only locally [on a "simple" open set U] that the foliation appears as a stack of plaques and admits a local

quotient manifold. Globally, a leaf L may return and cut a simple open set U in several plaques, sometimes even an infinite number of plaques.

Handbook of Differential Geometry Franki J.E. Dillen 2005-11-29 In the series of volumes which together will constitute the "Handbook of Differential Geometry" we try to give a rather complete survey of the field of differential geometry. The different chapters will both deal with the basic material of differential geometry and with research results (old and recent). All chapters are written by experts in the area and contain a large bibliography. In this second volume a wide range of areas in the very broad field of differential geometry is discussed, as there are Riemannian geometry, Lorentzian geometry, Finsler geometry, symplectic geometry, contact geometry, complex geometry, Lagrange geometry and the geometry of foliations. Although this does not cover the whole of differential geometry, the reader will be provided with an overview of some of its most important areas. . Written by experts and covering recent research . Extensive bibliography . Dealing with a diverse range of areas . Starting from the basics

Foliations 2005 - Proceedings Of The International Conference Pawel Walczak 2006-09-20 This volume takes a look at the current state of the theory of foliations, with surveys and research articles concerning different aspects. The focused aspects cover geometry of foliated Riemannian manifolds, Riemannian foliations and dynamical properties of foliations and some aspects of classical dynamics related to the field. Among the articles readers may find a study of foliations which admit a transverse contractive flow, an extensive survey on non-commutative geometry of Riemannian foliations, an article on contact structures converging to foliations, as well as a few articles on conformal geometry of foliations. This volume also contains a list of open problems in foliation theory which were collected from the participants of the Foliations 2005 conference.

The Quantitative Theory of Foliations H. Blaine Lawson 2007-03-29 The purpose of these notes is to introduce the reader to the question of how many geometrically distinct foliations, if any, can be constructed on a given manifold. The notes are based on lectures given in a Regional Conference at Washington University in January 1975.

Proceedings of the International Symposium/Workshop on Geometric Study of Foliations Tadayoshi Mizutani 1994

Geometry of Foliations Philippe Tondeur 2012-12-06 The topics in this survey volume concern research done on the differential geometry of foliations over the last few years. After a discussion of the basic concepts in the theory of foliations in the first four chapters, the subject is narrowed down to Riemannian foliations on closed manifolds beginning with Chapter 5. Following the discussion of the special case of flows in Chapter 6, Chapters 7 and 8 are devoted to Hodge theory for the transversal Laplacian and applications of the heat equation method to Riemannian foliations. Chapter 9 on Lie foliations is a preparation for the statement of Molino's Structure Theorem for Riemannian foliations in Chapter 10. Some aspects of the spectral theory for Riemannian foliations are discussed in Chapter 11. Connes' point of view of foliations as examples of non commutative spaces is briefly described in Chapter 12. Chapter 13 applies ideas of Riemannian foliation theory to an infinite-dimensional context. Aside from the list of references on Riemannian foliations (items on this list are referred to in the text by []), we have included several appendices as follows. Appendix A is a list of books and surveys on particular aspects of foliations. Appendix B is a list of proceedings of conferences and symposia devoted partially or entirely to foliations. Appendix C is a bibliography on foliations, which attempts to be a reasonably complete list of papers and preprints on the subject of foliations up to 1995, and contains approximately 2500 titles.

Introduction to the Geometry of Foliations, Part B Gilbert Hector 2012-12-06 "The book ...is a storehouse of useful information for the mathematicians interested in foliation theory." (John Cantwell, Mathematical Reviews 1992)

Geometric Study Of Foliations - Proceedings Of The International Symposium/workshop Tadayoshi Mizutani 1994-12-16 This book covers recent topics in various aspects of foliation theory and its relation with other

areas including dynamical systems, C*-algebras, index theory and low-dimensional topology. It contains survey articles by G Hector, S Hurder and P Molino, as well as more than 20 original papers by specialists who are currently most active in the field.

Foliations 2005 Pawel Grzegorz Walczak 2006 This volume takes a look at the current state of the theory of foliations, with surveys and research articles concerning different aspects. The focused aspects cover geometry of foliated Riemannian manifolds, Riemannian foliations and dynamical properties of foliations and some aspects of classical dynamics related to the field. Among the articles readers may find a study of foliations which admit a transverse contractive flow, an extensive survey on non-commutative geometry of Riemannian foliations, an article on contact structures converging to foliations, as well as a few articles on conformal geometry of foliations. This volume also contains a list of open problems in foliation theory which were collected from the participants of the Foliations 2005 conference. Sample Chapter(s). Chapter 1: Morphisms of Pseudogroups and foliated Maps (808 KB). Contents: Morphisms of Pseudogroups and Foliated Maps (J Alvarez Lopez & X Masa); On Infinitesimal Derivatives of the Bott Class (T Asuke); Hirsch Foliation in Codimension Greater Than One (A Bis, S Hurder & J Shive); Extrinsic Geometry of Foliation on 3-Manifolds (D Bolotov); Extrinsic Geometry of Foliation (M Czarnecki & P Walczak); Transversal Twistor Spinors on a Riemannian Foliation (S D Jung); A Survey on Simplicial Volume and Invariants of Foliation and Laminations (T Kuessner); Harmonic Foliation of the Plane, a Conformal Approach (R Langevin); Consecutive Shifts Along Orbits of Vector Fields (S Maksymenko); Generalized Equivariant Index Theory (K Richardson); Vanishing Results for Spectral Terms of a Riemannian Foliation (V Slesar); On the Group of Foliation Preserving Diffeomorphisms (T Tsuboi); and other papers. Readership: Researchers and graduate students in such areas of mathematics as foliations, dynamical systems (Anosov and Morse-Smale, in particular), Riemannian and conformal geometry; and in other fields such as mathematical physics, non-commutative geometry and analysis on manifolds."

Symplectic Geometry, Groupoids, and Integrable Systems Pierre Dazord 2012-12-06 The papers, some of which are in English, the rest in French, in this volume are based on lectures given during the meeting of the Seminaire Sud Rhodanien de Geometrie (SSRG) organized at the Mathematical Sciences Research Institute in 1989. The SSRG was established in 1982 by geometers and mathematical physicists with the aim of developing and coordinating research in symplectic geometry and its applications to analysis and mathematical physics. Among the subjects discussed at the meeting, a special role was given to the theory of symplectic groupoids, the subject of fruitful collaboration involving geometers from Berkeley, Lyon, and Montpellier.

Foliations, Geometry, and Topology Nicolau Corção Saldanha 2009 Presents the proceedings of the conference on Foliation, Geometry, and Topology, held August 6-10, 2007, in Rio de Janeiro, Brazil, in honor of the 70th birthday of Paul Schweitzer. The papers focus on the theory of foliations and related areas such as dynamical systems, group actions on low dimensional manifolds, and geometry of hypersurfaces.

Rock Blasting Terms and Symbols Agne Rustan 1998-02-01 This dictionary represents today the most extensive rock blasting dictionary available and it is therefore a valuable tool and essential for research and writing reports, papers to international journals. Terminology is important in the process of development of a science because it is the language for communication between students, teachers, tech

Varietes Analytiques Compactes Y. Hervier 2006-11-15

Foliations and the Geometry of 3-Manifolds Danny Calegari 2007-05-17 This unique reference, aimed at research topologists, gives an exposition of the 'pseudo-Anosov' theory of foliations of 3-manifolds. This theory generalizes Thurston's theory of surface automorphisms and reveals an intimate connection between dynamics, geometry and topology in 3 dimensions. Significant themes returned to throughout the text include the importance of geometry, especially the hyperbolic geometry of surfaces, the importance of monotonicity, especially in 1-dimensional and co-dimensional dynamics, and combinatorial approximation, using finite combinatorial objects such as train-tracks, branched surfaces and hierarchies to carry more complicated continuous objects.

Foliations Alberto Candel 2000 This is the second of two volumes on the qualitative theory of foliations. For this volume, the authors have selected three special topics: analysis on foliated spaces, characteristic

classes of foliations, and foliated manifolds. Each of these is an example of deep interaction between foliation theory and some other highly-developed area of mathematics. In all cases, the authors present useful, in-depth introductions, which lead to further study using the extensive available literature. This comprehensive volume has something to offer a broad spectrum of readers: from beginners to advanced students to professional researchers. It contains exercises and many illustrations. The book would make an elegant supplementary text for a topics course at the advanced graduate level. Foliations I is Volume 23 in the AMS series, Graduate Studies in Mathematics.

A Catalogue of Books Printed Either in Gothic Letter Or Before the Year 1551, Forming Part of the Library of Stonyhurst College; Compiled ... by ... C. Boardman Library (STONYHURST COLLEGE) 1862

Foliations 2012 - Proceedings Of The International Conference Jesus A Alvarez Lopez 2013-10-25 This volume is a compilation of new results and surveys on the current state of some aspects of the foliation theory presented during the conference "FOLIATIONS 2012". It contains recent materials on foliation theory which is related to differential geometry, the theory of dynamical systems and differential topology. Both the original research and survey articles found in here should inspire students and researchers interested in foliation theory and the related fields to plan his/her further research.

Foliations on Riemannian Manifolds Philippe Tondeur 2012-12-06 A first approximation to the idea of a foliation is a dynamical system, and the resulting decomposition of a domain by its trajectories. This is an idea that dates back to the beginning of the theory of differential equations, i.e. the seventeenth century. Towards the end of the nineteenth century, Poincare developed methods for the study of global, qualitative properties of solutions of dynamical systems in situations where explicit solution methods had failed: He discovered that the study of the geometry of the space of trajectories of a dynamical system reveals complex phenomena. He emphasized the qualitative nature of these phenomena, thereby giving strong impetus to topological methods. A second approximation is the idea of a foliation as a decomposition of a manifold into submanifolds, all being of the same dimension. Here the presence of singular submanifolds, corresponding to the singularities in the case of a dynamical system, is excluded. This is the case we treat in this text, but it is by no means a comprehensive analysis. On the contrary, many situations in mathematical physics most definitely require singular foliations for a proper modeling. The global study of foliations in the spirit of Poincare was begun only in the 1940's, by Ehresmann and Reeb.

Birational Geometry of Foliation Marco Brunella 2015-03-25 The text presents the birational classification of holomorphic foliations of surfaces. It discusses at length the theory developed by L.G. Mendes, M. McQuillan and the author to study foliations of surfaces in the spirit of the classification of complex algebraic surfaces.

Generic Coarse Geometry of Leaves Jesús A. Álvarez López 2018-07-28 This book provides a detailed introduction to the coarse quasi-isometry of leaves of a foliated space and describes the cases where the generic leaves have the same quasi-isometric invariants. Every leaf of a compact foliated space has an induced coarse quasi-isometry type, represented by the coarse metric defined by the length of plaque chains given by any finite foliated atlas. When there are dense leaves either all dense leaves without holonomy are uniformly coarsely quasi-isometric to each other, or else every leaf is coarsely quasi-isometric to just meagerly many other leaves. Moreover, if all leaves are dense, the first alternative is characterized by a condition on the leaves called coarse quasi-symmetry. Similar results are proved for more specific coarse invariants, like growth type, asymptotic dimension, and amenability. The Higson corona of the leaves is also studied. All the results are richly illustrated with examples. The book is primarily aimed at researchers on foliated spaces. More generally, specialists in geometric analysis, topological dynamics, or metric geometry may also benefit from it.

Differential Geometrical Theory of Statistics Frédéric Barbaresco 2018-04-06 This book is a printed edition of the Special Issue "Differential Geometrical Theory of Statistics" that was published in *Entropy*

Dynamical Systems on 2- and 3-Manifolds Viacheslav Z. Grines 2016-11-11 This book provides an introduction to the topological classification of smooth structurally stable diffeomorphisms on closed orientable 2- and 3-manifolds. The topological classification is one of the main problems of the theory of dynamical systems and the results presented in this book are mostly for dynamical systems satisfying Smale's Axiom A. The main results on the topological classification of discrete dynamical systems are

widely scattered among many papers and surveys. This book presents these results fluidly, systematically, and for the first time in one publication. Additionally, this book discusses the recent results on the topological classification of Axiom A diffeomorphisms focusing on the nontrivial effects of the dynamical systems on 2- and 3-manifolds. The classical methods and approaches which are considered to be promising for the further research are also discussed. The reader needs to be familiar with the basic concepts of the qualitative theory of dynamical systems which are presented in Part 1 for convenience. The book is accessible to ambitious undergraduates, graduates, and researchers in dynamical systems and low dimensional topology. This volume consists of 10 chapters; each chapter contains its own set of references and a section on further reading. Proofs are presented with the exact statements of the results. In Chapter 10 the authors briefly state the necessary definitions and results from algebra, geometry and topology. When stating ancillary results at the beginning of each part, the authors refer to other sources which are readily available.

Index Theory of Elliptic Operators, Foliations, and Operator Algebras Jerome Kaminker 1988 Combining analysis, geometry, and topology, this volume provides an introduction to current ideas involving the application of K -theory of operator algebras to index theory and geometry. In particular, the articles follow two main themes: the use of operator algebras to reflect properties of geometric objects and the application of index theory in settings where the relevant elliptic operators are invertible modulo a C^* -algebra other than that of the compact operators. The papers in this collection are the proceedings of the special sessions held at two AMS meetings: the Annual meeting in New Orleans in January 1986, and the Central Section meeting in April 1986. Jonathan Rosenberg's exposition supplies the best available introduction to Kasparov's K -theory and its applications to representation theory and geometry. A striking application of these ideas is found in Thierry Fack's paper, which provides a complete and detailed proof of the Novikov Conjecture for fundamental groups of manifolds of non-positive curvature. Some of the papers involve Connes' foliation algebra and its K -theory, while others examine C^* -algebras associated to groups and group actions on spaces.

Holomorphic Dynamical Systems Nessim Sibony 2010-07-20 The theory of holomorphic dynamical systems is a subject of increasing interest in mathematics, both for its challenging problems and for its connections with other branches of pure and applied mathematics. A holomorphic dynamical system is the datum of a complex variety and a holomorphic object (such as a self-map or a vector field) acting on it. The study of a holomorphic dynamical system consists in describing the asymptotic behavior of the system, associating it with some invariant objects (easy to compute) which describe the dynamics and classify the possible holomorphic dynamical systems supported by a given manifold. The behavior of a holomorphic dynamical system is pretty much related to the geometry of the ambient manifold (for instance, hyperbolic manifolds do not admit chaotic behavior, while projective manifolds have a variety of different chaotic pictures). The techniques used to tackle such problems are of various kinds: complex analysis, methods of real analysis, pluripotential theory, algebraic geometry, differential geometry, topology. To cover all the possible points of view of the subject in a unique occasion has become almost impossible, and the CIME session in Cetraro on Holomorphic Dynamical Systems was not an exception.

Grid Homology for Knots and Links Peter S. Ozsváth 2015-12-04 Knot theory is a classical area of low-dimensional topology, directly connected with the theory of three-manifolds and smooth four-manifold topology. In recent years, the subject has undergone transformative changes thanks to its connections with a number of other mathematical disciplines, including gauge theory; representation theory and categorification; contact geometry; and the theory of pseudo-holomorphic curves. Starting from the combinatorial point of view on knots using their grid diagrams, this book serves as an introduction to knot theory, specifically as it relates to some of the above developments. After a brief overview of the background material in the subject, the book gives a self-contained treatment of knot Floer homology from the point of view of grid diagrams. Applications include computations of the unknotting number and slice genus of torus knots (asked first in the 1960s and settled in the 1990s), and tools to study variants of knot theory in the presence of a contact structure. Additional topics are presented to prepare readers for further study in holomorphic methods in low-dimensional topology, especially Heegaard Floer homology. The book could serve as a textbook for an advanced undergraduate or part of a graduate course in knot theory.

Standard background material is sketched in the text and the appendices.

Laminations and Foliations in Dynamics, Geometry and Topology Mikhail Lyubich 2001 This volume is based on a conference held at SUNY, Stony Brook (NY). The concepts of laminations and foliations appear in a diverse number of fields, such as topology, geometry, analytic differential equations, holomorphic dynamics, and renormalization theory. Although these areas have developed deep relations, each has developed distinct research fields with little interaction among practitioners. The conference brought together the diverse points of view of researchers from different areas. This book includes surveys and research papers reflecting the broad spectrum of themes presented at the event. Of particular interest are the articles by F. Bonahon, "Geodesic Laminations on Surfaces", and D. Gabai, "Three Lectures on Foliations and Laminations on 3-manifolds", which are based on minicourses that took place during the conference.

Topology of Foliations: An Introduction Ichirō Tamura 1992 This book provides historical background and a complete overview of the qualitative theory of foliations and differential dynamical systems. Senior mathematics majors and graduate students with background in multivariate calculus, algebraic and differential topology, differential geometry, and linear algebra will find this book an accessible introduction. Upon finishing the book, readers will be prepared to take up research in this area. Readers will appreciate the book for its highly visual presentation of examples in low dimensions. The author focuses particularly on foliations with compact leaves, covering all the important basic results. Specific topics covered include: dynamical systems on the torus and the three-sphere, local and global stability theorems for foliations, the existence of compact leaves on three-spheres, and foliated cobordisms on three-spheres. Also included is a short introduction to the theory of differentiable manifolds.

Proceedings of the Euroworkshop on Foliations Geometry and Dynamics, 29 May-9 June 2000, Warsaw, Poland Paweł Grzegorz Walczak 2002 Contains surveys and research articles regarding different aspects of the theory of foliation.

Introduction to Foliations and Lie Groupoids I. Moerdijk 2003-09-18 This book gives a quick introduction to the theory of foliations, Lie groupoids and Lie algebroids. An important feature is the emphasis on the interplay between these concepts: Lie groupoids form an indispensable tool to study the transverse structure of foliations as well as their noncommutative geometry, while the theory of foliations has immediate applications to the Lie theory of groupoids and their infinitesimal algebroids. The book starts with a detailed presentation of the main classical theorems in the theory of foliations then proceeds to Molino's theory, Lie groupoids, constructing the holonomy groupoid of a foliation and finally Lie algebroids. Among other things, the authors discuss to what extent Lie's theory for Lie groups and Lie algebras holds in the more general context of groupoids and algebroids. Based on the authors' extensive teaching experience, this book contains numerous examples and exercises making it ideal for graduate students and their instructors.

Foliations Alberto Candel 2003 This is the second of two volumes on foliations (the first is Volume 23 of this series). In this volume, three specialized topics are treated: analysis on foliated spaces, characteristic classes of foliations, and foliated three-manifolds. Each of these topics represents deep interaction between foliation theory and another highly developed area of mathematics. In each case, the goal is to provide students and other interested people with a substantial introduction to the topic leading to further study using the extensive available literature.

Global Analysis on Foliated Spaces Calvin C. Moore 2006 This book presents a complete proof of Connes' Index Theorem generalized to foliated spaces, including coverage of new developments and applications.

Foliations: Dynamics, Geometry and Topology Masayuki Asaoka 2014-10-07 This book is an introduction to several active research topics in Foliation Theory and its connections with other areas. It contains expository lectures showing the diversity of ideas and methods converging in the study of foliations. The lectures by Aziz El Kacimi Alaoui provide an introduction to Foliation Theory with emphasis on examples and transverse structures. Steven Hurder's lectures apply ideas from smooth dynamical systems to develop useful concepts in the study of foliations: limit sets and cycles for leaves, leafwise geodesic flow, transverse exponents, Pesin Theory and hyperbolic, parabolic and elliptic types of foliations. The lectures by Masayuki Asaoka compute the leafwise cohomology of foliations given by actions of Lie

groups, and apply it to describe deformation of those actions. In his lectures, Ken Richardson studies the properties of transverse Dirac operators for Riemannian foliations and compact Lie group actions, and explains a recently proved index formula. Besides students and researchers of Foliation Theory, this book will be interesting for mathematicians interested in the applications to foliations of subjects like Topology of Manifolds, Differential Geometry, Dynamics, Cohomology or Global Analysis.

Collected Papers II Israel M. Gelfand 1988-09-09 I.M. Gelfand (1913 - 2009), one of the world's leading contemporary mathematicians, largely determined the modern view of functional analysis with its numerous relations to other branches of mathematics, including mathematical physics, algebra, topology, differential geometry and analysis. In this three-volume Collected Papers Gelfand presents a representative sample of his work. Gelfand's research led to the development of remarkable mathematical theories - most of which are now classics - in the field of Banach algebras, infinite-dimensional representations of Lie groups, the inverse Sturm-Liouville problem, cohomology of infinite-dimensional Lie algebras, integral geometry, generalized functions and general hypergeometric functions. The corresponding papers form the major part of the collection. Some articles on numerical methods and cybernetics as well as a few on biology are also included. A substantial number of the papers have been translated into English especially for this edition. The collection is rounded off by an extensive bibliography with almost 500 references. Gelfand's Collected Papers will be a great stimulus, especially for the younger generation, and will provide a strong incentive to researchers.

Foliations: Geometry and Dynamics Paweł Walczak 2002-02-01 This volume contains surveys and research articles regarding different aspects of the theory of foliation. The main aspects concern the topology of foliations of low-dimensional manifolds, the geometry of foliated Riemannian manifolds and the dynamical properties of foliations. Among the surveys are lecture notes devoted to the analysis of some operator algebras on foliated manifolds and the theory of confoliations (objects defined recently by W Thurston and Y Eliashberg, situated between foliations and contact structures). Among the research articles one can find a detailed proof of an unpublished theorem (due to Duminy) concerning ends of leaves in exceptional minimal sets. Contents: Survey Articles: Some Results on Secondary Characteristic Classes of Transversely Holomorphic Foliations (T Asuke) LS-Categories for Foliated Manifolds (H Colman) Dynamics and the Godbillon-Vey Class: A History and Survey (S Hurder) Similarity and Conformal Geometry of Foliations (R Langevin) Foliations and Contact Structures on 3-Manifolds (Y Mitsumatsu) Operator Algebras and the Index Theorem on Foliated Manifolds (H Moriyoshi) Research Articles: Distributional Betti Numbers of Transitive Foliations of Codimension One (J Álvarez-López & Y Kordyukov) Tautly Foliated 3-Manifolds with No R-Covered Foliations (M Brittenham) Ends of Exceptional Leaves — A Theorem of G Duminy (J Cantwell & L Conlon) Foliations and Compactly Generated Pseudogroups (A Haefliger) Transverse Lusternik-Schnirelmann Category and Non-Proper Leaves (R Langevin & P Walczak) On Exact Poisson Manifolds of Dimension 3 (T Mizutani) On the Perfectness of Groups of Diffeomorphisms of the Interval Tangent to the Identity at the Endpoints (T Tsuboi) and other papers Readership: Researchers interested in mathematics, especially in fields related to differential geometry and topology, and the theory of dynamical systems. Keywords: Proceedings; Workshop; Geometry; Warsaw (Poland); Dynamics; Euroworkshop

Tectonics of the Indian Subcontinent A.K. Jain 2020-04-07 This book documents the salient characters of the tectonic evolution of the Indian subcontinent. It showcases the well investigated subcontinent of Gondwana. The book is linked to an updated geological and tectonic map of this region on 1:12,000,000 in scale. The Indian subcontinent displays almost uninterrupted and unique the geological history since about Eo-Archean (~3800 Ma) to recent, with the development of many Proterozoic deformed and metamorphosed fold belts around Archean nuclei, and enormously thick undeformed platform deposits. After their stabilization during late Proterozoic, the subcontinent underwent Paleozoic rifting and deposition of coal-bearing thick sequences, followed by enormously-thick outpouring of Deccan volcanics as a consequence of huge mantle plume. The youngest event in its evolution is the Cenozoic Himalayan Orogenic Mountains, spanning the area between Nanga Parbat and Namcha Barwah; a part of which extends both in Pakistan and Myanmar.

Open Problems in Topology II Elliott M. Pearl 2011-08-11 This volume is a collection of surveys of research problems in topology and its applications. The topics covered include general topology, set-theoretic

topology, continuum theory, topological algebra, dynamical systems, computational topology and functional analysis. * New surveys of research problems in topology * New perspectives on classic problems * Representative surveys of research groups from all around the world

Foliations Ichirō Tamura 1985 The papers here discuss various aspects of the topology of foliations: Foliations and C^* Algebras, Characteristic Classes and Cobordisms of Foliations, Dynamical Study of Transverse Foliations, Stability and Topology of Leaves, and Germs of Foliations.

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