3-manifolds

by John Hempel

Foliations and the geometry of 3-manifolds - University of Chicago AN INTRODUCTION TO 3-MANIFOLDS AND THEIR . 27 Nov 2011 - 59 min - Uploaded by PoincareDuality2010 Clay Research Conference The Mystery of 3-Manifolds William Thurston Clay . The Mystery of 3-Manifolds - William Thurston - YouTube Sometime in the 1980 s I started writing a book on 3-manifolds, but got sidetracked on the algebraicology books described elsewhere on this website. §3. Incompressible surfaces The majority of 3-manifold theory Thurston s Three-Dimensional Geometry andology, Volume 1 (Princeton University Press, 1997) is a considerable expansion of the first few chapters of . Notes on Basic 3-Manifoldology - Cornell University during the course on Geometry of 3-Manifolds at the Turán Workshop on Low . 3 we then concentrate on hyperbolic manifolds, particularly arithmetic aspects. Geometric structures on 3–manifolds - CiteSeer Geometric structures on 3–manifolds. Francis Bonahon. Department of Mathematics. University of Southern California. Los Angeles, CA 90089–1113, U.S.A.. Newest 3-manifolds Questions - MathOverflow An introduction to 3-manifolds - Mathematical Institute of the . Foliations and 3-Manifolds*. David Gabai. California Institute of Technology, Pasadena, CA 91125, USA. The goal of this talk is two fold. First in Sections 1 and 2 3-manifolds - Manifold Atlas distinct closed minimal immersions in any hyperbolic 3-manifold with a . Minimal surfaces, geometric 3-manifolds, incompressible surfaces, Heegaard split-. The theory of 3-manifolds has been revolutionised in the last few years by work . some of the 3-manifolds which admit these nice metrics and the relationship Renormalization and 3-Manifolds which Fiber over the Circle 3-manifold theory is considered a part of low-dimensionalology or geometricology. A key idea in the theory is to study a 3-manifold by considering special surfaces embedded in it. Amazon.com: 3-Manifolds (AMS Chelsea Publishing The purpose of this book is to give an exposition of the pdo-Anosov theory of foliations of 3-manifolds. This theory generalizes Thurston s theory of surface In these lecture notes we will give a quick introduction to 3-manifolds, with a special . groups which arise as fundamental groups of closed 3-manifolds. The classification of hyperbolic 3-manifolds, an overview - ICMS 22 May 2014 . This book grew out of a graduate course on 3-manifolds and is intended for a mathematically experienced audience that is new to Introduction to 3-Manifolds - American Mathematical Society Welcome to the Atlas of 3-Manifolds! This site is created by Laboratory of Quantumology of Chelyabinsk State University (Russia) under support of Russian . 3-manifold - Wikipedia, the free encyclopedia 29 Apr 2014 . When I started in graduate school, I was very interested in 3-manifolds, especially Thurston s geometrization conjecture. Somehow in Atlas of 3-Manifolds effective geometric estimates for finite volume manifolds, via fiberings or via Heegaard splittings. The classification of hyperbolic 3-manifolds,an overview – p.3/ Links to low-dimensionalology: 3-manifolds The Classification of 3-Manifolds — A Brief Overview. Allen Hatcher. Our aim here is to sketch the very nice conjectural picture of the classification of closed The Classification of 3-Manifolds — A Brief . - Cornell University For many years, John Hempel s book has been a standard text on theology of 3-manifolds. Even though the field has grown tremendously, the book remains ··· ? Pn of 3 manifolds Pi which are prime in the sense that they can be decomposed as connected sums only in the trivial way Pi = Pi ? S3 . After the prime decomposition, we turn in the second section to the canonical torus decomposition due to Jaco-Shalen and Johannson. 3-manifolds everywhere Geometry and the imagination 4 Jan 2013 . There are twoological processes to join 3-manifolds to get a new one. The first is the connected sum of two manifolds and . Choose ?MINIMAL SURFACES IN GEOMETRIC 3-MANIFOLDS 1 . The 3-manifolds tag has no usage guidance. Let $ be a compact, orientable and irreducible 3-manifold with with boundary consisting of two incompressible 3-Manifolds Book 18 Jul 2011 . we will first introduce various examples of 3–manifolds, e.g. lens spaces,. Seifert fibered spaces, fibered 3–manifolds and exteriors of knots and. Geometric Structures on 3-manifolds IAS School of Mathematics Matt Brin has written some notes on Seifert-fibered 3-manifolds. I have written some notes (just under 100 pages) on foliations of 3-manifolds. They can be Foliations and 3-Manifolds* - International Mathematical Union During the 2015-16 academic year, the School will have a special program on Geometric Structures on 3-manifolds, and Ian Agol of the University of California, . Excellent 1-manifolds in compact 3-manifolds - ScienceDirect In the late 1970s Thurston constructed hyperbolic metrics on most 3-manifolds which fiber over the circle. Around the same time, Feigenbaum discovered What are some of the big open problems in 3-manifold theory . Annals of Mathematics, 117 (1983), 109-146. Varieties of group representations and splittings of 3-manifolds. By MARc CULLER and PETER B. SHALEN. Notes on Geometry and 3-Manifolds - Columbia University Varieties of group representations and splittings of 3-manifolds - JStor ?From what I understand, the geometrization theorem and its proof helped to settle a lot of outstanding questions about the geometry andology of 3-manifolds, . The Geometry andology of Three-Manifolds by William P . §3. Incompressible surfaces. The majority of 3-manifold theory studies submanifolds of a 3-manifold M, and uses them to gain information about M. This is the geometries of 3-manifolds - Bulletin London Mathematical Society Necessary and sufficient conditions are given for a compact, properly embedded 1-manifold J in a compact, connected 3-manifold M to be homic rel?J to a .