



The Ricci Flow: An Introduction (Mathematical Surveys and Monographs)

By *Bennett Chow, Dan Knopf*

Download now

Read Online 

The Ricci Flow: An Introduction (Mathematical Surveys and Monographs)

By Bennett Chow, Dan Knopf

The Ricci flow is a powerful technique that integrates geometry, topology, and analysis. Intuitively, the idea is to set up a PDE that evolves a metric according to its Ricci curvature. The resulting equation has much in common with the heat equation, which tends to "flow" a given function to ever nicer functions. By analogy, the Ricci flow evolves an initial metric into improved metrics. Richard Hamilton began the systematic use of the Ricci flow in the early 1980s and applied it in particular to study 3-manifolds. Grisha Perelman has made recent breakthroughs aimed at completing Hamilton's program. The Ricci flow method is now central to our understanding of the geometry and topology of manifolds. This book is an introduction to that program and to its connection to Thurston's geometrization conjecture. The authors also provide a "Guide for the hurried reader", to help readers wishing to develop, as efficiently as possible, a nontechnical appreciation of the Ricci flow program for 3-manifolds, i.e., the so-called "fast track".

 [Download The Ricci Flow: An Introduction \(Mathematical Surv ...pdf](#)

 [Read Online The Ricci Flow: An Introduction \(Mathematical Su ...pdf](#)

The Ricci Flow: An Introduction (Mathematical Surveys and Monographs)

By Bennett Chow, Dan Knopf

The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf

The Ricci flow is a powerful technique that integrates geometry, topology, and analysis. Intuitively, the idea is to set up a PDE that evolves a metric according to its Ricci curvature. The resulting equation has much in common with the heat equation, which tends to "flow" a given function to ever nicer functions. By analogy, the Ricci flow evolves an initial metric into improved metrics. Richard Hamilton began the systematic use of the Ricci flow in the early 1980s and applied it in particular to study 3-manifolds. Grisha Perelman has made recent breakthroughs aimed at completing Hamilton's program. The Ricci flow method is now central to our understanding of the geometry and topology of manifolds. This book is an introduction to that program and to its connection to Thurston's geometrization conjecture. The authors also provide a "Guide for the hurried reader", to help readers wishing to develop, as efficiently as possible, a nontechnical appreciation of the Ricci flow program for 3-manifolds, i.e., the so-called "fast track".

The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf **Bibliography**

- Sales Rank: #339463 in Books
- Published on: 2004-05-24
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 7.00" w x 1.00" l, 1.80 pounds
- Binding: Hardcover
- 325 pages

 [Download The Ricci Flow: An Introduction \(Mathematical Surv ...pdf](#)

 [Read Online The Ricci Flow: An Introduction \(Mathematical Su ...pdf](#)

Download and Read Free Online The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf

Editorial Review

Review

"Well written ... topics are well-motivated and presented with clarity and insight ... proofs are clear yet detailed so that the material is accessible to a wide audience as well as specialists. Gaps in arguments in the literature are filled in." ---- Zentralblatt MATH

Users Review

From reader reviews:

Leslie Heidelberg:

Information is provisions for anyone to get better life, information these days can get by anyone on everywhere. The information can be a understanding or any news even a huge concern. What people must be consider when those information which is in the former life are hard to be find than now is taking seriously which one is appropriate to believe or which one the actual resource are convinced. If you find the unstable resource then you obtain it as your main information we will see huge disadvantage for you. All those possibilities will not happen in you if you take The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) as the daily resource information.

Robin Gilbertson:

People live in this new time of lifestyle always make an effort to and must have the extra time or they will get great deal of stress from both lifestyle and work. So , whenever we ask do people have time, we will say absolutely of course. People is human not a robot. Then we question again, what kind of activity have you got when the spare time coming to you actually of course your answer can unlimited right. Then do you ever try this one, reading ebooks. It can be your alternative in spending your spare time, the book you have read is actually The Ricci Flow: An Introduction (Mathematical Surveys and Monographs).

Caleb Hutto:

Playing with family within a park, coming to see the marine world or hanging out with buddies is thing that usually you have done when you have spare time, in that case why you don't try thing that really opposite from that. One activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you are ride on and with addition of knowledge. Even you love The Ricci Flow: An Introduction (Mathematical Surveys and Monographs), it is possible to enjoy both. It is very good combination right, you still want to miss it? What kind of hang type is it? Oh can occur its mind hangout folks. What? Still don't obtain it, oh come on its known as reading friends.

Brenda Burrows:

Don't be worry when you are afraid that this book will probably filled the space in your house, you could have it in e-book method, more simple and reachable. This particular The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) can give you a lot of pals because by you looking at this one book you have factor that they don't and make an individual more like an interesting person. That book can be one of one step for you to get success. This book offer you information that probably your friend doesn't learn, by knowing more than various other make you to be great folks. So , why hesitate? Let me have The Ricci Flow: An Introduction (Mathematical Surveys and Monographs).

**Download and Read Online The Ricci Flow: An Introduction
(Mathematical Surveys and Monographs) By Bennett Chow, Dan
Knopf #ONJ2WR51BFA**

Read The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf for online ebook

The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf books to read online.

Online The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf ebook PDF download

The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf Doc

The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf Mobipocket

The Ricci Flow: An Introduction (Mathematical Surveys and Monographs) By Bennett Chow, Dan Knopf EPub