Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics)

James Carlson, Stefan Müller-Stach, Chris Peters

Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics)

James Carlson, Stefan Müller-Stach, Chris Peters

Period Mappings and Period Domains (**Cambridge Studies in Advanced Mathematics**) James Carlson, Stefan Müller-Stach, Chris Peters
The concept of a period of an elliptic integral goes back to the 18th century. Later Abel, Gauss, Jacobi, Legendre, Weierstrass and others made a systematic study of these integrals. Rephrased in modern terminology, these give a way to encode how the complex structure of a two-torus varies, thereby showing that certain families contain all elliptic curves. Generalizing to higher dimensions resulted in the formulation of the celebrated Hodge conjecture, and in an attempt to solve this, Griffiths generalized the classical notion of period matrix and introduced period maps and period domains which reflect how the complex structure for higher dimensional varieties varies. The basic theory as developed by Griffiths is explained in the first part of the book. Then, in the second part spectral sequences and Koszul complexes are introduced and are used to derive results about cycles on higher dimensional algebraic varieties such as the Noether-Lefschetz theorem and Nori's theorem. Finally, in the third part differential geometric methods are explained leading up to proofs of Arakelov-type theorems, the theorem of the fixed part, the rigidity theorem, and more. Higgs bundles and relations to harmonic maps are discussed, and this leads to striking results such as the fact that compact quotients of certain period domains can never admit a Kahler metric or that certain lattices in classical Lie groups can't occur as the fundamental group of a Kahler manifold.

Download and Read Free Online Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) James Carlson, Stefan Müller-Stach, Chris Peters

---

From reader reviews:

Virginia Smith:

Do you one among people who can't read pleasurable if the sentence chained from the straightway, hold on guys this aren't like that. This Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) book is readable by you who hate those perfect word style. You will find the info here are arrange for enjoyable reading through experience without leaving possibly decrease the knowledge that want to supply to you. The writer connected with Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) content conveys the thought easily to understand by many people. The printed and e-book are not different in the written content but it just different available as it. So , do you nevertheless thinking Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) is not loveable to be your top record reading book?

Dawn Bliss:

Reading a reserve tends to be new life style on this era globalization. With studying you can get a lot of information which will give you benefit in your life. Using book everyone in this world may share their idea. Guides can also inspire a lot of people. Many author can inspire all their reader with their story or perhaps their experience. Not only situation that share in the books. But also they write about the ability about something that you need instance. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book that you can get now. The authors in this world always try to improve their proficiency in writing, they also doing some research before they write with their book. One of them is this Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics).

Constance Argueta:

The book untitled Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) contain a lot of information on the item. The writer explains the woman idea with easy technique. The language is very clear to see all the people, so do not really worry, you can easy to read this. The book was published by famous author. The author will bring you in the new era of literary works. It is easy to read this book because you can read on your smart phone, or program, so you can read the book inside anywhere and anytime. If you want to buy the e-book, you can open up their official web-site and also order it. Have a nice go through.

Jason Caldwell:

Many people spending their time frame by playing outside along with friends, fun activity using family or just watching TV the whole day. You can have new activity to shell out your whole day by reading through a book. Ugh, you think reading a book can really hard because you have to use the book everywhere? It okay you can have the e-book, having everywhere you want in your Cell phone. Like Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) which is getting the e-book version. So , why not

try out this book? Let's see.

Download and Read Online Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) James Carlson, Stefan Müller-Stach, Chris Peters #8RUHONTKFB7

Read Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) by James Carlson, Stefan Müller-Stach, Chris Peters for online ebook

Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) by James Carlson, Stefan Müller-Stach, Chris Peters 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 Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) by James Carlson, Stefan Müller-Stach, Chris Peters books to read online.

Online Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) by James Carlson, Stefan Müller-Stach, Chris Peters ebook PDF download

Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) by James Carlson, Stefan Müller-Stach, Chris Peters Doc

Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) by James Carlson, Stefan Müller-Stach, Chris Peters Mobipocket

Period Mappings and Period Domains (Cambridge Studies in Advanced Mathematics) by James Carlson, Stefan Müller-Stach, Chris Peters EPub