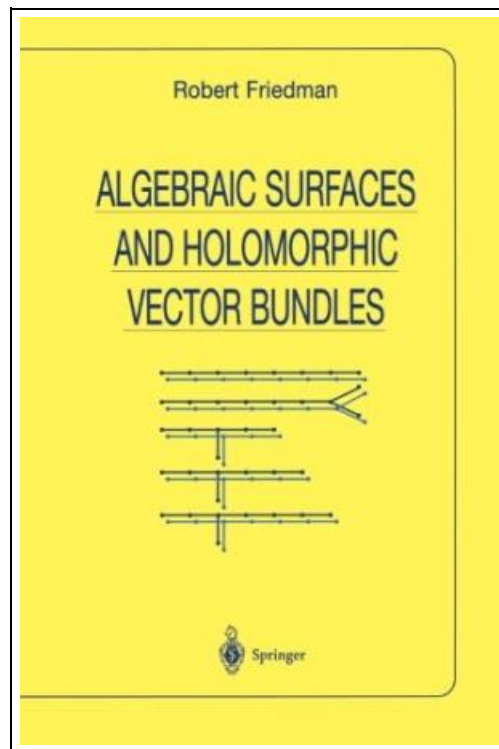# Algebraic Surfaces and Holomorphic Vector Bundles

Filesize: 3.2 MB

Reviews

This is an awesome publication i have at any time read. Of course, it is play, still an interesting and amazing literature. You will like just how the author write this book.

(Prof. Herta Mann)

ALGEBRAIC SURFACES AND HOLOMORPHIC VECTOR BUNDLES

To get **Algebraic Surfaces and Holomorphic Vector Bundles** eBook, make sure you access the web link listed below and save the file or gain access to other information that are related to ALGEBRAIC SURFACES AND HOLOMORPHIC VECTOR BUNDLES book.

Book Condition: New. Publisher/Verlag: Springer, Berlin | A novel feature of the book is its integrated approach to algebraic surface theory and the study of vector bundle theory on both curves and surfaces. While the two subjects remain separate through the first few chapters, they become much more tightly interconnected as the book progresses. Thus vector bundles over curves are studied to understand ruled surfaces, and then reappear in the proof of Bogomolov's inequality for stable bundles, which is itself applied to study canonical embeddings of surfaces via Reider's method. Similarly, ruled and elliptic surfaces are discussed in detail, before the geometry of vector bundles over such surfaces is analysed. Many of the results on vector bundles appear for the first time in book form, backed by many examples, both of surfaces and vector bundles, and over 100 exercises forming an integral part of the text. Aimed at graduates with a thorough first-year course in algebraic geometry, as well as more advanced students and researchers in the areas of algebraic geometry, gauge theory, or 4-manifold topology, many of the results on vector bundles will also be of interest to physicists studying string theory. | 1 Curves on a Surface.- Invariants of a surface.- Divisors on a surface.- Adjunction and arithmetic genus.- The Riemann-Roch formula.- Algebraic proof of the Hodge index theorem.- Ample and nef divisors.- Exercises.- 2 Coherent Sheaves.- What is a coherent sheaf?.- A rapid review of Chern classes for projective varieties.- Rank 2 bundles and sub-line bundles.- Elementary modifications.- Singularities of coherent sheaves.- Torsion free and reflexive sheaves.- Double covers.- Appendix: some commutative algebra.- Exercises.- 3 Birational Geometry.- Blowing up.- The Castelnuovo criterion and factorization of birational morphisms.- Minimal models.- More general contractions.- Exercises.- 4 Stability.- Definition of Mumford-Takemoto stability.- Examples for curves.- Some examples of stable bundles...

Read Algebraic Surfaces and Holomorphic Vector Bundles Online
Download PDF Algebraic Surfaces and Holomorphic Vector Bundles

Other eBooks

[PDF] Preventing Childhood Eating Problems : A Practical, Positive Approach to Raising Kids Free of Food and Weight Conflicts

Click the hyperlink below to download "Preventing Childhood Eating Problems : A Practical, Positive Approach to Raising Kids Free of Food and Weight Conflicts" document.

Save ePub »

[PDF] Everything Ser The Everything Green Baby Book From Pregnancy to Babys First Year An Easy and Affordable Guide to Help Moms Care for Their Baby And for the Earth by Jenn Savedge 2009 Paperback

Click the hyperlink below to download "Everything Ser The Everything Green Baby Book From Pregnancy to Babys First Year An Easy and Affordable Guide to Help Moms Care for Their Baby And for the Earth by Jenn Savedge 2009 Paperback" document.

Save ePub »

[PDF] Baby Bargains Secrets to Saving 20 to 50 on Baby Furniture Equipment Clothes Toys Maternity Wear and Much Much More by Alan Fields and Denise Fields 2005 Paperback

Click the hyperlink below to download "Baby Bargains Secrets to Saving 20 to 50 on Baby Furniture Equipment Clothes Toys Maternity Wear and Much Much More by Alan Fields and Denise Fields 2005 Paperback" document.

Save ePub »

[PDF] Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee

Click the hyperlink below to download "Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee" document.

Save ePub »

[PDF] Kingfisher Readers: What Animals Eat (Level 2: Beginning to Read Alone) (Unabridged)

Click the hyperlink below to download "Kingfisher Readers: What Animals Eat (Level 2: Beginning to Read Alone) (Unabridged)" document.

Save ePub »

[PDF] Some of My Best Friends Are Books : Guiding Gifted Readers from Preschool to High School

Click the hyperlink below to download "Some of My Best Friends Are Books : Guiding Gifted Readers from Preschool to High School" document.

Save ePub »