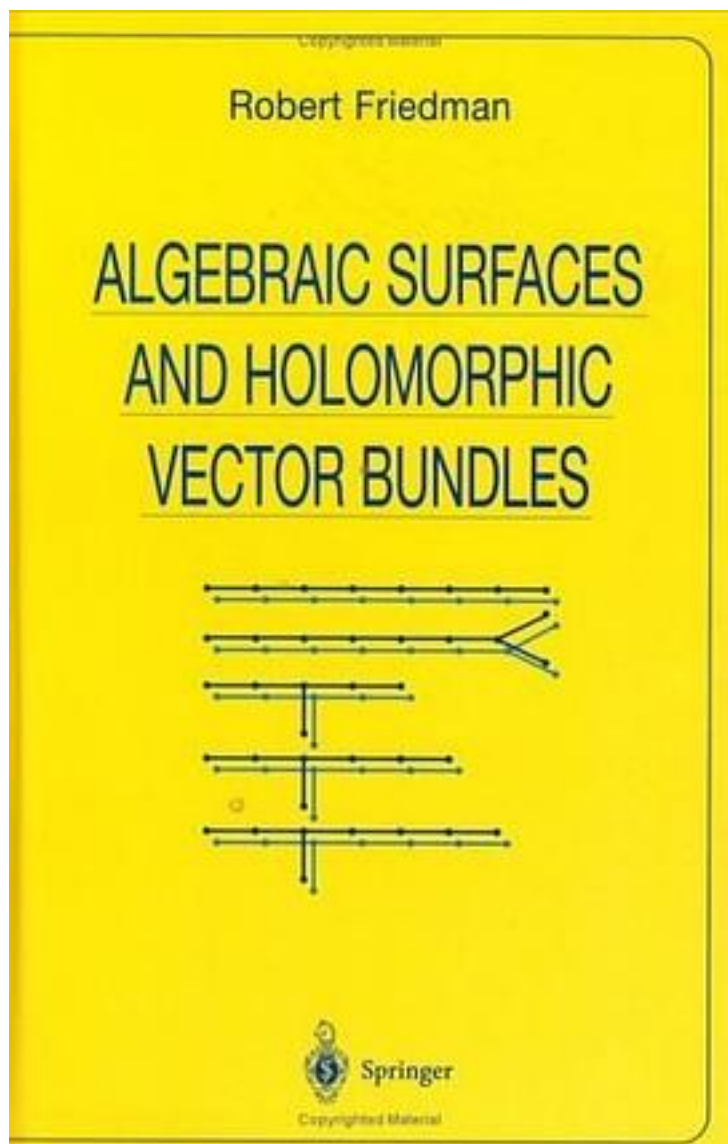# Algebraic Surfaces and Holomorphic Vector Bundles (Universitext)

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著者:Robert Friedman

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This book covers the theory of algebraic surfaces and holomorphic vector bundles in an integrated manner. It is aimed at graduate students who have had a thorough first year course in algebraic geometry (at the level of Hartshorne's ALGEBRAIC GEOMETRY), as well as more advanced graduate students and researchers in the areas of algebraic geometry, gauge thoery, or 4-manifold topolgogy. Many of the results on vector bundles should also be of interest to physicists studying string theory. 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, and are studied in alternate 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, and then the geometry of vector bundles over such surfaces is analyzed. Many of the results on vector bundles appear for the first time in book form, suitable for graduate students. The book also has a strong emphasis on examples, both of surfaces and vector bundles. There are over 100 exercises which form an integral part of the text.

作者介绍:

目录:

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标签

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评论

此书的编排很有意思，一三五七讲surface，二四六八讲bundle，最后两章的顺序是不是该颠倒一下啊？

作为《Principles in Algebraic Geometry》的对照阅读

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书评

陈类（Chern
class）是几何拓扑中的一个非常重要的不变量，不仅定义相对比较复杂，具体计算也有一定的技巧性，下面我们就从代数几何的角度讨论一下相关问题。
在代数几何中，陈类一般是先定义在线束（line
bundle）上，然后再推广到一般向量束（vector bundle，中...

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