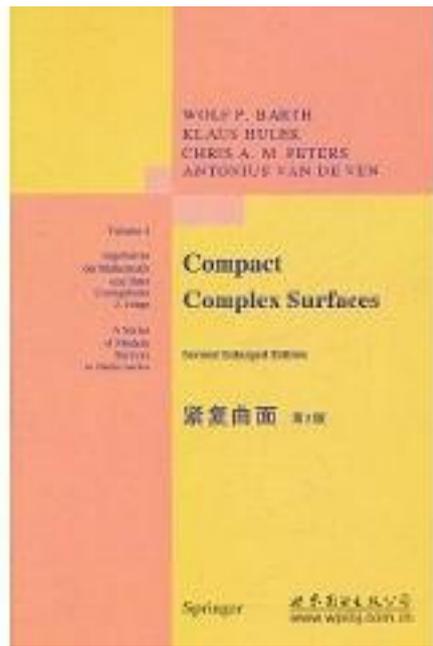


紧复曲面



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《紧复曲面(英文版)(第2版)》是一部非常好的学习代数曲面的书，提供了复曲面分类的复解析方法。此书是从复代数几何角度研究复曲面的大全类书籍，从初等入门到高深前沿都有涉及。这本书是经典中的经典，讲的是代数曲面的各种专题，每个章节都写的无限完美。内容包括曲面里的曲线，相交数，霍奇分解，projectivity，有理曲面分类，Kodaira分类，general 曲面，K3&Enrique曲面。此书新版的最后两章写的尤其好，一是K3曲面；另一个是Donaldson和Seiber Witten理论，后者是来自模空间的不变量理论，都是现在热门的专题。有位读者这么说：“可以说如果学代数几何没念过这本书，甚至是学几何没念过《紧复曲面(第2版)》，可以考虑换行，是百年难得一见的好书。”可见《紧复曲面(第2版)》书在该领域具有举足轻重的地位。

作者介绍:

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评论

四维光滑流形和紧复曲面之间的关系，唐纳森和威腾不变量都是曲面分类的不变量。古典的双有理变换的不变量是贝蒂数维数和几何亏格（用黎曼罗赫定理计算是线丛或者是正规丛截面的空间的维数）紧复曲面分类等价于极小曲面分类。庞加莱对偶和Serre对偶实际上一个是流形上的，一个是向量丛上的，庞加莱对偶通过一个Dolbeaut上同调的中间提升得到从上的塞尔对偶，它们的证明都依赖于Hodge定理。

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书评

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