

<<双曲几何讲义>>

图书基本信息

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内容概要

One of the main themes of this book is the conflict between the 'flexibility' and the 'rigidity' properties of the hyperbolic manifolds : the first radical difference arises between the case of dimension 2 and the case of higher dimensions (as proved in chapters B and C) , an elementary feature of this phenomenon being the difference between the Riemann mapping theorem and Liouville's theorem , as pointed out in chapter A. This chapter is rather elementary and most of its material may be the object of an undergraduate course.

Together with the rigidity theorem , a basic tool for the study of hyperbolic manifolds is Margulis' lemma , a detailed proof of which we give in chapter D; as a consequence of this result in the same chapter we also give a rather accurate description , in all dimensions , of the thin-thick decomposition of a hyperbolic manifold (especially in case of finite volume) .

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