

<<代数曲面>>

图书基本信息

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前言

The aim of the present monograph is to give a systematic exposition of the theory of algebraic surfaces emphasizing the interrelations between the various aspects of the theory : algebro-geometric , topological and transcendental. To achieve this aim , and still remain inside the limits of the allotted space , it was necessary to confine the exposition to topics which are absolutely fundamental. The present work therefore makes no claim to completeness , but it does , however , cover most of the central points of the theory. A presentation of the theory of surfaces , to be effective at all , must above all give the typical methods of proof used in the theory and their underlying ideas. It is especially true of algebraic geometry that in this domain the methods employed are at least as important as the results. The author has therefore avoided , as much as possible , purely formal accounts of results. The proofs given are of necessity condensed , for reasons of space , but no attempt has been made to condense them beyond the point of intelligibility. In many instances , due to exigencies of simplicity and rigor , the proofs given in the text differ , to a greater or less extent , from the proofs given in the original papers.

The author regrets that he has not been able , for the reasons outlined above , to include in his work two interesting and important developments of the theory : (I) the classification of surfaces by means of their in-variants , due chiefly to ENRIQUES; (II) the theory of real algebraic surfaces , due to CO.ESSA ? TI. Fortunately , excellent and quite recent accounts of these two developments are available (I. GEPPERT , a;II. COMESSATTI , b; see "Bibliography") . Thanks are due to Dr. S. F. BARBER , National Research Fellow , and to Dr. R. J , WALKER of Princeton University , for careful reading of the manuscript and for many valuable suggestions. Baltimore , June 12 , 1934 O. ZARISKI

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内容概要

本书是《Classics in Mathematics》系列之一，以现代观点讲述了代数几何知识，将经典代数曲面和现代代数曲面有机结合，很好地表达出了数学的整体性，是同时期很难得的一本代数曲面教材。全书主要内容包括奇点理论和奇点还原；曲线的线性系统；伴随系和不变量理论；算术亏格和Riemann-Roch定理；连续非线性系统；代数曲面的拓扑性质；代数曲面上的单积分和双重积分；复平面上的Branch曲线和连续性。

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