Affine And Projective Geometry By M K Bennett

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Bumcrot Jorge Stolfi Pierre Samuel L. N. G. (Louis Napoleon George) Filon Robin Hartshorne Herbert Busemann Lucian Silvestru Badescu Arnold Emch Oswald Veblen C. W.. O'Hara Daniel Pedoe Oswald Veblen Lucian Badescu Albrecht Beutelspacher Alfred North Whitehead Alfred Garside Pickford

projective geometry is one of the most fundamental and at the same time most beautiful branches of geometry it can be considered the common foundation of many other geometric disciplines like euclidean geometry hyperbolic and elliptic geometry or even relativistic space time geometry this book offers a comprehensive introduction to this fascinating field and its applications in particular it explains how metric concepts may be best understood in projective terms one of the major themes that appears throughout this book is the beauty of the interplay between geometry algebra and combinatorics this book can especially be used as a guide that explains how geometric objects and operations may be most elegantly expressed in algebraic terms making it a valuable resource for mathematicians as well as for computer scientists and physicists the book is based on the author s experience in implementing geometric software and includes hundreds of high quality illustrations

highlighted by numerous examples this book explores methods of the projective geometry of the plane examines the conic the general equation of the 2nd degree and the relationship between euclidean and projective geometry 1960 edition

this lucid introductory text offers both analytic and axiomatic approaches to plane projective geometry strong reinforcement for its teachings include detailed examples and numerous theorems proofs and exercises plus answers to all odd numbered problems in addition to its value to students this volume provides an excellent reference for professionals 1970 edition

john wesley young co authored with oswald veblen the first monograph on projective geometry in english that careful and thorough axiomatic treatment remains read today this volume is young s attempt to write an accessible and intuitive treatment for non

specialists the first five chapters are a careful and elementary treatment of the subject culminating in the theorems of pascal and brianchon and the polar system of a conic later chapters pull metric consequences from projective results and consider the kleinian classification of geometries by their groups of transformations this book nearly a century after its initial publication remains a very approachable and understandable treatment of the subject

oriented projective geometry a framework for geometric computations proposes that oriented projective geometry is a better framework for geometric computations than classical projective geometry the aim of the book is to stress the value of oriented projective geometry for practical computing and develop it as a rich consistent and effective tool for computer programmers the monograph is comprised of 20 chapters chapter 1 gives a quick overview of classical and oriented projective geometry on the plane and discusses their advantages and disadvantages as computational models chapters 2 through 7 define the canonical oriented projective spaces of arbitrary dimension the operations of join and meet and the concept of relative orientation chapter 8 defines projective maps the space transformations that preserve incidence and orientation these maps are used in chapter 9 to define abstract oriented projective spaces chapter 10 introduces the notion of projective duality chapters 11 12 and 13 deal with projective functions projective frames relative coordinates and cross ratio chapter 14 tells about convexity in oriented projective spaces chapters 15 16 and 17 show how the affine euclidean and linear vector spaces can be emulated with the oriented projective space finally chapters 18 through 20 discuss the computer representation and manipulation of lines planes and other subspaces computer scientists and programmers will find this text invaluable

the purpose of this book is to revive some of the beautiful results obtained by various geometers of the 19th century and to give its readers a taste of concrete algebraic geometry a good deal of space is devoted to cross ratios conics quadrics and various interesting curves and surfaces the fundamentals of projective geometry are efficiently

dealt with by using a modest amount of linear algebra an axiomatic characterization of projective planes is also given while the topology of projective spaces over real and complex fields is described and while the geometry of the complex projective libe is applied to the study of circles and möbius transformations the book is not restricted to these fields interesting properties of projective spaces conics and quadrics over finite fields are also given this book is the first volume in the readings in mathematics sub series of the utm from the reviews the book of p samuel thus fills a gap in the literature it is a little jewel starting from a minimal background in algebra he succeeds in 160 pages in giving a coherent exposition of all of projective geometry one reads this book like a novel d lazard in gazette des mathématiciens 1

this text examines the 3 classical geometries and their relationship to general geometric structures with particular focus on affine geometry projective metrics non euclidean geometry and spatial geometry 1953 edition

the aim of this monograph is to introduce the reader to modern methods of projective geometry involving certain techniques of formal geometry some of these methods are

illustrated in the first part through the proofs of a number of results of a rather classical flavor involving in a crucial way the first infinitesimal neighbourhood of a given subvariety in an ambient variety motivated by the first part in the second formal functions on the formal completion x y of x along a closed subvariety y are studied particularly the extension problem of formal functions to rational functions the formal scheme x y introduced to algebraic geometry by zariski and grothendieck in the 1950s is an analogue of the concept of a tubular neighbourhood of a submanifold of a complex manifold it is very well suited to study the given embedding y subset x the deep relationship of formal geometry with the most important connectivity theorems in algebraic geometry or with complex geometry is also studied some of the formal methods are illustrated and applied to homogeneous spaces the book contains a lot of results obtained over the last thirty years many of which never appeared in a monograph or textbook it addresses to algebraic geometers as well as to those interested in using methods of algebraic geometry

projective geometry is not only a jewel of mathematics but has also many applications in modern information and communication science this book presents the foundations of classical projective and affine geometry as well as its important applications in coding theory and cryptography it also could serve as a first acquaintance with diagram geometry written in clear and contemporary language with an entertaining style and around 200 exercises examples and hints this book is ideally suited to be used as a textbook for study in the classroom or on its own

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