

1. Record Nr.	UNIORUON00348950
Autore	BECKSON, Karl
Titolo	Arthur Symons : a life / Karl Beckson
Pubbl/distr/stampa	Oxford University Press, 1987
ISBN	01-981288-2-7
Descrizione fisica	xi, 402 p. : ill. ; 23 cm.
Disciplina	823.0109
Soggetti	SYMONS ARTHUR
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910644265203321
Autore	Nerode Anil <1932->
Titolo	Algebraic Curves and Riemann Surfaces for Undergraduates : The Theory of the Donut / / by Anil Nerode, Noam Greenberg
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-031-11616-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (456 pages)
Disciplina	515.93
Soggetti	Geometry, Algebraic Functions of complex variables Global analysis (Mathematics) Manifolds (Mathematics) Algebraic Geometry Functions of a Complex Variable Global Analysis and Analysis on Manifolds Corbes algebriques Geometria algebraica Superfícies de Riemann Llibres electrònics

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction -- Part I Algebraic curves -- 2 Algebra -- 3 Affine space -- 4 Projective space -- 5 Tangents -- 6 Bézout's theorem -- 7 The elliptic group -- Part II Riemann Surfaces -- 8 Quasi-Euclidean spaces -- 9 Connectedness, smooth and simple -- 10 Path integrals -- 11 Complex differentiation -- 12 Riemann surfaces -- Part III Curves and surfaces -- 13 Curves are surfaces -- 14 Elliptic functions and the isomorphism theorem -- 15 Puiseux theory -- 16 A brief history of elliptic functions.
Sommario/riassunto	The theory relating algebraic curves and Riemann surfaces exhibits the unity of mathematics: topology, complex analysis, algebra and geometry all interact in a deep way. This textbook offers an elementary introduction to this beautiful theory for an undergraduate audience. At the heart of the subject is the theory of elliptic functions and elliptic curves. A complex torus (or "donut") is both an abelian group and a Riemann surface. It is obtained by identifying points on the complex plane. At the same time, it can be viewed as a complex algebraic curve, with addition of points given by a geometric "chord-and-tangent" method. This book carefully develops all of the tools necessary to make sense of this isomorphism. The exposition is kept as elementary as possible and frequently draws on familiar notions in calculus and algebra to motivate new concepts. Based on a capstone course given to senior undergraduates, this book is intended as a textbook for courses at this level and includes a large number of class-tested exercises. The prerequisites for using the book are familiarity with abstract algebra, calculus and analysis, as covered in standard undergraduate courses.