



METADATA

Title: Algebraic Curves

Other Titles: An Introduction to algebraic geometry

Language: Greek

Authors: Kontogeorgis, A., Professor, UOA, Antoniadis, I., Professor Emeritus, UOC

ISBN: 978-618-85370-1-9

Subject: MATHEMATICS AND COMPUTER SCIENCE

Keywords: Algebraic curves / Schemes / Algebraic geometry / Riemann surfaces

Bibliographic Reference: Kontogeorgis, A., & Antoniadis, I. (2021). Algebraic Curves [Undergraduate textbook]. Kallipos, Open Academic Editions. <http://dx.doi.org/10.57713/kallipos-10>

Abstract

The starting point for algebraic geometry was the study of algebraic sets, that is the study of the locus of points satisfying a set of polynomial equations. The geometric properties of such sets are encoded inside the rings of functions

that are naturally defined on such sets. In this book we develop both the more abstract theory of schemes and the classical approach in terms of Riemann surfaces and algebraic function fields over a field of arbitrary characteristic.