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Titolo	An Introduction to Riemann Surfaces, Algebraic Curves and Moduli Spaces [[electronic resource] /] / by Martin Schlichenmaier
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Soggetti	Algebraic geometry Mathematical physics Elementary particles (Physics) Quantum field theory Algebraic topology Algebraic Geometry Theoretical, Mathematical and Computational Physics Elementary Particles, Quantum Field Theory Algebraic Topology
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Nota di contenuto	from a physicist's viewpoint -- Manifolds -- Topology of riemann surfaces -- Analytic structure -- Differentials and integration -- Tori and jacobians -- Projective varieties -- Moduli space of curves -- Vector bundles, sheaves and cohomology -- The theorem of riemann-roch for line bundles -- The mumford isomorphism on the moduli space.
Sommario/riassunto	This lecture is intended as an introduction to the mathematical concepts of algebraic and analytic geometry. It is addressed primarily to theoretical physicists, in particular those working in string theories. The author gives a very clear exposition of the main theorems, introducing the necessary concepts by lucid examples, and shows how to work with the methods of algebraic geometry. As an example he presents the Krichever-Novikov construction of algebras of Virasaro type. The book will be welcomed by many researchers as an overview of

an important branch of mathematics, a collection of useful formulae and an excellent guide to the more extensive mathematical literature.