1. Record Nr. UNINA9910968709503321

Autore	Sturmfels Bernd <1962->
Titolo	Algorithms in Invariant Theory / / by Bernd Sturmfels
Pubbl/distr/stampa	Vienna : , : Springer Vienna : , : Imprint : Springer, , 1993
ISBN	3-7091-4368-3 9786611491277
Edizione	[1st ed. 1993.]
Descrizione fisica	1 online resource (204 p.)
Collana	Texts & Monographs in Symbolic Computation, A Series of the Research Institute for Symbolic Computation, Johannes Kepler University, Linz, Austria, , 2197-8409
Disciplina	004
Soggetti	Machine theory Discrete mathematics Artificial intelligence Computer science - Mathematics Logic, Symbolic and mathematical Geometry, Algebraic Formal Languages and Automata Theory Discrete Mathematics Artificial Intelligence Symbolic and Algebraic Manipulation Mathematical Logic and Foundations Algebraic Geometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invariant theory of finite groups -- Bracket algebra and projective geometry -- Invariants of the general linear group.
Sommario/riassunto	J. Kung and G.-C. Rota, in their 1984 paper, write: “Like the Arabian phoenix rising out of its ashes, the theory of invariants, pronounced dead at the turn of the century, is once again at the forefront of mathematics”. The book of Sturmfels is both an easy-to-read textbook for invariant theory and a challenging research monograph that introduces a new approach to the algorithmic side of invariant theory. The Groebner bases method is the main tool by which the central

problems in invariant theory become amenable to algorithmic solutions. Students will find the book an easy introduction to this “classical and new” area of mathematics. Researchers in mathematics, symbolic computation, and computer science will get access to a wealth of research ideas, hints for applications, outlines and details of algorithms, worked out examples, and research problems.