An Introduction To Grobner Bases

Author : William W Adams and Philippe Loustaunau / **Category :**Uncategorized / **Total Pages** : 0 pages

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Summary : Free an introduction to grobner bases pdf download - a very carefully crafted introduction to the theory and some of the applications of grobner bases contains a wealth of illustrative examples and a wide variety of useful exercises the discussion is everywhere well-motivated and further developments and important issues are well sign-posted has many solid virtues and is an ideal text for beginners in the subject certainly an excellent text --bulletin of the london mathematical society as the primary tool for doing explicit computations in polynomial rings in many variables grobner bases are an important component of all computer algebra systems they are also important in computational commutative algebra and algebraic geometry this book provides a leisurely and fairly comprehensive introduction to grobner bases and their applications adams and loustaunau cover the following topics the theory and construction of grobner bases for polynomials with coefficients in a field applications of grobner bases to computational problems involving rings of polynomials in many variables a method for computing syzygy modules and grobner bases in modules and the theory of grobner bases for polynomials with coefficients in rings with over 120 worked-out examples and 200 exercises this book is aimed at advanced undergraduate and graduate students it would be suitable as a supplement to a course in commutative algebra or as a textbook for a course in computer algebra or computational commutative algebra this book would also be appropriate for students of computer science and engineering who have some acquaintance with modern algebra

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