



## The Structure of Polynomial Ideals and Grobner Bases (Classic Reprint)

By T Dube

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from The Structure of Polynomial Ideals and Grobner Bases The use of Grobner Bases is becoming increasingly important in algebraic computational geometry. As a result, there has been much activity in the recent years concerning the complexity of Buchberger s algorithm, and the degree of polynomials which it may produce. Bayer s thesis in 1982 provided the direction for recent research, and several recent papers have combined to show that the complexity of computing a Grobner Basis for a given ideal is double exponential in the number of variables. This paper introduces a new partitioning of a polynomial ideal. Using this partitioning, the sharpened degree bound can be obtained using only combinatorial arguments, and without the need to change coordinate systems. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in...

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