Classical Invariant Theory

By P. J. Olver

Cambridge University Press, 1999. Soft cover. Book Condition: New. There has been a resurgence of interest in classical invariant theory driven by several factors: new theoretical developments; a revival of computational methods coupled with powerful new computer algebra packages; and a wealth of new applications, ranging from number theory to geometry, physics to computer vision. This book provides readers with a self-contained introduction to the classical theory as well as modern developments and applications. The text concentrates on the study of binary forms (polynomials) in characteristic zero, and uses analytical as well as algebraic tools to study and classify invariants, symmetry, equivalence and canonical forms. A variety of innovations make this text of interest even to veterans of the subject; these include the use of differential operators and the transform approach to the symbolic method, extension of results to arbitrary functions, graphical methods for computing identities and Hilbert bases, complete systems of rationally and functionally independent covariants, introduction of Lie group and Lie algebra methods, as well as a new geometrical theory of moving frames and applications. Aimed at advanced undergraduate and graduate students the book includes many exercises and historical details, complete proofs of the fundamental theorems, and a...

READ ONLINE
[7.09 MB]

Reviews

Most of these publication is the ideal ebook readily available. it was actually writtern very flawlessly and beneficial. I discovered this book from my i and dad suggested this book to find out.
-- Prof. Lavern Brakus

This book will never be straightforward to start on looking at but extremely exciting to read. I actually have read through and that i am sure that i am going to gonna go through once more again in the future. I am happy to explain how this is the very best book i have read through in my individual lifestyle and may be he best publication for at any time.
-- Estrella Howe DVM